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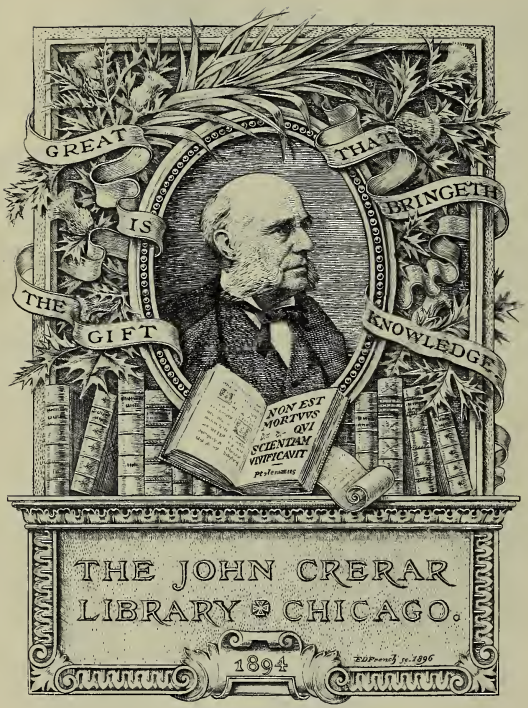
GREAT IS THE GIFT THAT BRINGETH KNOWLEDGE
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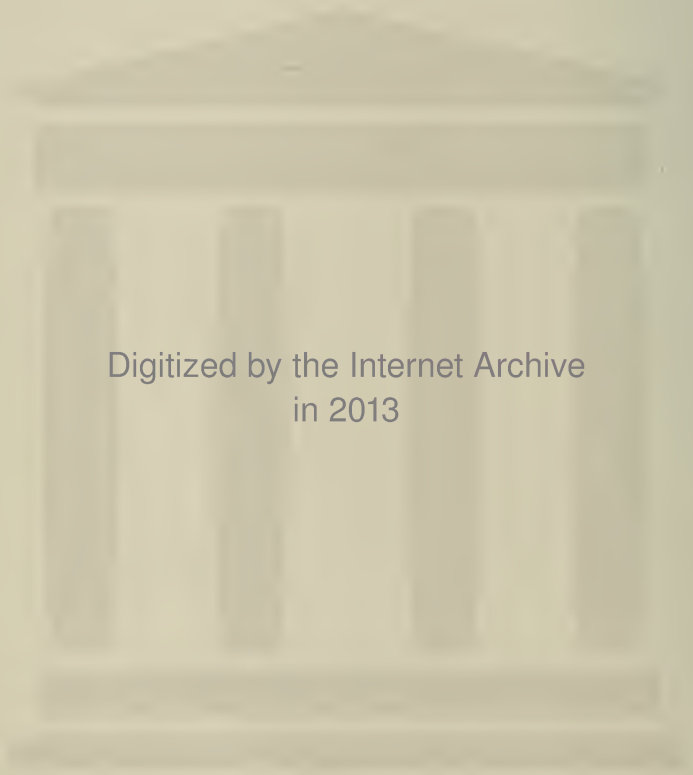
Manhattan College



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PERMANENT FILE
COUNCIL ON
MEDICAL EDUCATION

Manhattan College

New York City

Catalogue

1907 ⁘ 1908

UNIVERSITY OF THE STATE OF NEW YORK

Manhattan College

BROADWAY AND 131ST STREET
NEW YORK

CONDUCTED BY

THE BROTHERS OF THE CHRISTIAN SCHOOLS

1907-'08

ART
MUSEUM
LIBRARY

OFFICERS OF THE COLLEGE.

BROTHER JOSEPH

Chairman of Board of Trustees

BROTHER PETER

President

BROTHER VIRGIL

Registrar

BROTHER POTAMIAN

Secretary

BROTHER ANGELUS

Treasurer

COLLEGE CALENDAR.

1908

May 1—Friday—Examination in Pedagogy for the Lavelle Medal.

May 14—Thursday—Contest in Oratory for the Grady Memorial Medal.

May 15—Friday—Feast of St. De La Salle—Holiday.

May 22—Friday—Senior Examinations begin.

May 29—Close of Senior Examinations.

May 30—Saturday—Decoration Day—Memorial Services for the Deceased Alumni—Holiday.

June 4—Thursday—Undergraduate Examinations begin.

June 12—Friday—Senior Class Day.

June 14—Sunday—Baccalaureate Sermon.

June 16—Tuesday—Commencement Exercises.

September 7—Monday—Entrance Examinations.

September 9—Wednesday—Class Exercises begin.

September 17—Thursday—Mass of Invocation.

October 1—Thursday—College Societies reorganize.

October 5—Monday—Annual Retreat begins.

October 14—Wednesday—Fall Games.

November 26—Thursday—Thanksgiving Day—Holiday.

December 22—Tuesday—Seniors' Day.

December 23—Saturday—Christmas Recess begins.

1909

January 4—Monday—Christmas Recess ends.

January 22—Friday—Examinations begin.

February 1—Monday—Second Term begins.

February 12—Friday—Lincoln Day—Holiday.

February 20—Friday—Contest in Oratory.

February 22—Monday—Washington's Birthday—Holiday.

March 16—Bureau Day.

March 17—Wednesday—St. Patrick's Day—Holiday.

April 5—Monday—High School Day.

April 10—Saturday—Easter Recess begins

April 19—Monday—Class Exercises resumed.

Manhattan College

ANHATTAN COLLEGE was incorporated in 1863 by the Regents of the University of the State of New York. The College comprises two departments of study, each offering several courses leading to degrees.

The courses of the Arts Department lead to the degrees of Bachelor of Arts and Master of Arts. The requirements for admission and the courses of study will be found under their proper headings.

The courses of the Science Department lead to the degrees of Bachelor of Science, Master of Science and Civil Engineer.

The importance of the natural and experimental sciences is emphasized in the courses given in physics, chemistry, geology, and physiology. These courses are of special benefit to those who intend to study medicine. Of no less advantage for the intending law student are the courses in logic, political economy, and social science. For students who intend to embrace the teaching profession, there are courses in pedagogy, psychology and the history of education. These courses are recognized by the Department of Public Instruction of the State of New York, and by the Board of Education of New York City.

Besides the College proper, there is the High School, comprising a four years' course, which prepares for the Freshman class.

The studies of the School of Commerce include all subjects necessary for a thorough training in business methods.

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The studies of the Grammar School cover the pre-academic work prescribed by the Board of Regents.

The Collegiate year begins on the second Tuesday in September and ends on the last Tuesday in June. It comprises two terms, the first beginning on the second Tuesday in September and the second on the first day of February.

The Library contains 14,000 volumes. The Reading Room is well provided with reviews, magazines, and scientific periodicals.

The College Museum contains collections for courses in mineralogy, geology, zoölogy, and botany.

The courses of study adopted by the institutions affiliated to the College agree with those pursued in the High School, and thus offer to students graduating from them the advantage of entering without further examination. Students from these institutions who desire advanced standing must satisfy the Board of Examiners that their previous studies qualify them for the class which they desire to enter.

MANHATTAN COLLEGE COMPRISES

The Arts Department and

The Engineering Department

PREPARATORY SCHOOLS

The High School

The School of Commerce

The Grammar School

THE AFFILIATED INSTITUTIONS

Christian Brothers' Academy, Albany, N. Y.

Christian Brothers' Academy, Syracuse, N. Y.

De La Salle Institute, New York City

La Salle Academy, New York City

La Salle Institute, Troy, N. Y.

La Salle Academy, Providence, R. I.

Clason Point Military Academy, New York City

St. Joseph's Collegiate Institute, Buffalo, N. Y.

St. Joseph's High School, Manchester, N. H.

St. James High School, Brooklyn, New York City

PRIZES AND MEDALS.

1. A purse of $50 is awarded by the Alumni Society to the best English essayist of the Graduating class. The prize contest consists of two essays, one prepared and the other extemporaneous. The subject of the first is announced at the beginning of the month of October, and the essay must be presented not later than the second Tuesday of April. The subject of the second is announced when the candidates are assembled in the examination hall.

2. The Milmo-McGowan Medal for religious instruction was founded by Mrs. B. McGowan, in memory of her son, Mr. Michael J. McGowan, '69. This medal is awarded on competitive examination on the subject matter of the four years' course in dogma and moral, and church history. The examination takes place at the end of May.

3. The Kelly Medal for philosophy, offered to the students of the Senior class, was founded by the late Mr. Eugene Kelly, of New York City. This medal is awarded for proficiency in logic, metaphysics, and psychology.

4. The Grady Memorial Medal for oratory was founded by the Alumni Society in memory of Rev. John M. Grady, '69. Two contests are held: the preliminary, on the eve of Washington's Birthday, open to all the College students; the final, on May 14, eve of the Feast of St. De La Salle, open to those who obtained the highest marks in the first contest.

5. The Medal for the philosophy of history, donated by the Rev. Matthew A. Taylor, is awarded to the student of the Senior class who obtains the highest average in this subject.

6. The Lavelle Medal for pedagogy, offered by the Right Rev. Monsignor Lavelle, '73, Rector of St. Patrick's Cathedral, New York, is awarded to the student who obtains the highest percentage.

7. The Hoguet Medal for civil engineering, the gift of the late Chevalier Henry L. Hoguet, is awarded to the Senior science student who has the highest record for the year.

8. The Develin Medal for French, founded by Mr. Charles E. Miller, of New York City, in honor of his friend, Mr. John E. Develin, is awarded by competitive examination on the matter of the four years' College course.

9. The Ridder Purse of fifty dollars for experimental physics is offered by Mr. Herman Ridder, to the student of the Junior class who obtains the highest marks in this subject during the year.

10. The Doelger Medal for German, the gift of Mr. Peter Doelger, is awarded to the student of the Junior class who has the highest record for the year.

Three scholarships for day students are awarded annually. Candidates for these scholarships are examined in the first week of July.

The attention of friends and patrons is invited to the conditions necessary *to found a scholarship*. The amount required for a day student is fifteen hundred dollars; for a resident student, six thousand dollars.

FEES.

Board, tuition, physician's fee, washing, per session of ten months	$350 00
Day Students; Collegiate and Commercial	100 00
" High School	75 00
Dinner at College	60 00
Use of laboratory and apparatus for any course	10 00
Use of typewriter	5 00
Use of library	2 00
Music: piano, $80; mandolin, $50; violin, $50.	
Graduation fee	10 00
Certificate fee	5 00

For the support of athletics, the student body levies a tax of five dollars on every member of the respective classes.

Payment for the half session of five months is required in advance.

Remittances from outside New York City are to be made by draft or by post-office order, payable at Station J.

Money will be refunded only in case of dismissal or of protracted illness.

ENTRANCE REQUIREMENTS.

These requirements conform to the standards prescribed by the Regents of the University of the State of New York.

1. ENGLISH.—Candidates for admission to the Freshman class must pass a written examination in English; and no candidate will be admitted whose spelling, diction, or paragraphing is notably defective.

READING.—A certain number of books is set for reading. The candidate will be required to give evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a number set before him in the examination paper. These topics, which are assigned to test the candidate's power of clear and accurate expression, will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books. As a preparation for this part of the entrance requirements, it is important that the candidate be well versed in the fundamental principles of rhetoric.

The books selected for reading are:

1908. Shakespeare, *The Merchant of Venice* and *Macbeth;* the "Sir Roger de Coverley Papers" in *The Spectator;* Irving, *Life of Goldsmith;* Coleridge, *The Ancient Mariner;* Scott, *Ivanhoe* and *The Lady of the Lake;* Tennyson, *Gareth and Lynette, Lancelot and Elaine*, and *The Passing of Arthur;* Lowell, *The Vision of Sir Launfal;* George Eliot, *Silas Marner.*

1909-11: Shakespeare, *Henry V.* and *Julius Cæsar;* Franklin, *Autobiography;* Goldsmith, *The Deserted Village;* Hawthorne, *The House of the Seven Gables;* Dickens, *A Tale of Two Cities;* Irving, *Sketch Book;* De Quincey, *Joan of Arc* and *The English Mail Coach;* Poe, *Poems;* Macaulay, *Lays of Ancient Rome;* Longfellow, *The Courtship of Miles Standish*, or Browning, *The Pied Piper and other Poems.*

Study and Practice.—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon form, structure and subject matter. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and on the leading facts in those periods of English literary history to which the prescribed books belong.

The books set for this part of the examination are:

1908: Shakespeare, *Julius Cæsar;* Milton, *Lycidas*, *Comus*, *L'Allegro* and *Il Penseroso;* Burke, *Speech on Conciliation with America;* Macaulay, *Essay on Addison* and *Life of Johnson.*

1909-11: Shakespeare, *Macbeth;* Milton, *Lycidas*, *Comus*, *L'Allegro* and *Il Penseroso;* Burke, *Speech on Conciliation with America*, or *Washington's Farewell Address* and *Webster's First Bunker Hill Oration;* Macaulay, *Life of Johnson*, or Carlyle, *Essay on Burns.*

2. History.—History of the United States and Civil Government, and (a) History of England, or (b) History of France, or (c) History of Greece and Rome.

The following works will serve to show the knowledge expected in History: Montgomery's *History of the United States;* Anderson's *History of England;* Montgomery's *History of France;* Myer's *History of the Roman People;* Myer's *History of Greece.*

3. Algebra.—Wentworth's *School Algebra*, or equivalent.

4. Geometry.—Wentworth's *Plane and Solid Geometry*, or equivalent.

5. Plane Trigonometry.—Wentworth's *Plane Trigonometry*, or equivalent.

6. French.—Grammar, sight translation. Composition based upon the following books:

De Maistre, *Voyage autour de ma Chambre;* Mairet, *La Tâche du petit Pierre;* Halévy, *L'Abbé Constantin;* Daudet, *Le Siége de Berlin*, and Mérimée, *Colomba.*

7. German.—Grammar, sight translation. Composition based upon the following books:

Hillern, *Höher als die Kirche;* Hauff, *Das Kalte Herz;* Freytag, *Die Journalisten;* Storm, *Immensee.*

8. Chemistry.—A course of at least sixty experiments made by the candidate, with note-book certified by the teacher.

9. Physics.—Knowledge of the general principles of Physics, and their applications. Each candidate must present a note-book containing a description of at least forty experiments which he has performed.

The following will be accepted in place of French and German:

Latin.—Grammar, Allen & Greenough's or equivalent, including prosody. Cæsar, *Gallic War*, Books I-IV. Cicero, six orations. Reading at sight of a short passage of easy Latin prose. Vergil, *Æneid*, Books I-VI. Latin prose composition.

Greek.—Grammar, Goodwin's or equivalent, including prosody. Xenophon, *Anabasis*, Books I-III. Homer, *Iliad*, Books I-III. Greek prose composition, Jones', twenty exercises or equivalent.

Students presenting Latin and Greek for admission will be required to take a special course in French and German during the Freshman year, and will thereafter follow the regular programme.

A certificate of the Regents of the University of the State of New York will be received in lieu of the entrance examination, provided it has been issued within the year, or that the candidate has a certificate of continued study since its date of issue. The candidate will, however, be examined on such branches as are not included in the Regents certificate.

GENERAL REGULATIONS.

Every candidate for admission must present a certificate of good character.

At the beginning of the first year, each student elects the course which he desires to follow, and no student may afterward change his course without the permission of the Faculty.

Punctuality at all the exercises is required. Students absent from the opening of either the morning or the afternoon session will not be admitted to class without a note from the Inspector. No student who has exceeded the limit of absences from recitation will be entitled to take the examination.

Examinations are held semi-annually, in January and June, in all the subjects studied during the intervening periods. Special examinations in any subject may be held at the option of the Professor. Drawing and laboratory work count for half a recitation each.

Absence from an examination, unless excused by the Faculty, will be considered a failure.

Should a student fail in any one of the regular examinations, he may be permitted to take another examination at the opening of the following term, or at such time as may be fixed by his Professor.

Seventy per cent. in each subject constitutes a pass in both Departments of the College.

The final standing of each student is determined by his examination results together with the average of his year's class-marks in each subject.

Every candidate for a degree is required to present a written thesis on a subject connected with his course. The subject selected must be submitted for approval to the Professor of the department to which it belongs, on or before February 1. Such help and guidance may be offered the candidate as the Professor shall judge right, and the completed thesis shall be handed in for approval on or before May 30.

Theses shall contain not less than two thousand words, and must be typewritten on paper 13x8, a margin of an inch and a half. Science theses must be accompanied by the necessary drawings and illustrations. All approved theses become the property of the College and are placed in charge of the librarian.

If a student fail to present his thesis, or if the thesis be rejected, he shall not be recommended for his degree.

No degree or other testimonial will be conferred on any student who has not satisfactorily completed the prescribed courses.

At the discretion of the Faculty, a certificate of proficiency may be given to a student who has followed, under the direction of the Faculty, a special course of one or more subjects, and who gives evidence of satisfactory proficiency.

N. B.—No course outlined in this catalogue will be given unless there is a sufficient number of applicants.

Arts Department

ARTS DEPARTMENT.

The studies of this department for the Freshman and Sophomore years are prescribed; but in the Junior and Senior years elective courses are open to the student. In the Junior year, aspirants to the teaching profession begin to specialize for their future work.

Studies in literature, political science, pedagogy, and philosophy are supplemented by the discussion of pertinent articles in the leading periodicals of America and Europe.

The entrance requirements will be found on page 11.

Students who successfully complete one of the prescribed courses of this department receive the degree of Bachelor of Arts.

For the degree of Master of Arts, see page 30.

ARTS DEPARTMENT.

FRESHMAN CLASS.*

FIRST TERM.			SECOND TERM.		
French,	(4)	63	French,	(4)	63
German,	(4)	69	German,	(4)	69
English,	(4)	53, 55	English,	(6)	53, 56
History,	(2)	74	History,	(3)	75
Mathematics,	(3)	91	Mathematics,	(2)	92
Physics,	(2)	119	Physics,	(2)	119
Physical Laboratory,	(2)		Physical Laboratory,	(2)	
Chemistry,	(2)	11	Chemistry,	(2)	13
Chemical Laboratory,	(3)	12	Chemical Laboratory,	(3)	14
Elocution,	(1)	98	Elocution,	(1)	98
Christian Doctrine,	(2)	121	Christian Doctrine,	(2)	121

SOPHOMORE CLASS.

FIRST TERM.			SECOND TERM.		
French,	(4)	64	French,	(4)	64
German,	(4)	70	German,	(4)	70
English,	(6)	58, 59	English,	(6)	57, 59
History,	(3)	76	History,	(3)	77
Mechanics,	(3)	94	Mechanics,	(3)	94
Geology,	(2)	67	Geology,	(2)	68
Elocution,	(1)	99	Elocution,	(1)	99
Christian Doctrine,	(2)	122	Christian Doctrine,	(2)	122

* The figures in parentheses indicate the number of hours per week, the other figures indicate the paragraphs in which the course is outlined.

JUNIOR CLASS.

FIRST TERM.			SECOND TERM.		
FRENCH,	(4)	65	FRENCH,	(4)	65
GERMAN,	(4)	71, 72	GERMAN,	(4)	71, 72
ENGLISH,	(5)	54, 60	ENGLISH,	(5)	60
PHILOSOPHY,	(4)	107, 109	PHILOSOPHY,	(4)	116, 118
PHYSICS,	(3)	120	PHYSICS,	(3)	120
PHYSICAL LABORATORY,	(2)		PHYSICAL LABORATORY,	(2)	
ORATORY,	(1)	99	ORATORY,	(1)	100
CHRISTIAN DOCTRINE,	(2)	123	CHRISTIAN DOCTRINE,	(2)	123
ASTRONOMY,	(2)	1	ASTRONOMY,	(2)	1
PEDAGOGY,	(3)	102, 104	PEDAGOGY,	(3)	102, 104

ELECTIVES.

FIRST TERM.			SECOND TERM.		
BIOLOGY,	(4)	4	BIOLOGY,	(4)	4, 5
SPANISH,	(2)	125	SPANISH,	(2)	125
AMERICAN POLITICAL INSTITUTIONS,	(1)	81	EUROPEAN CONSTITUTIONS,	(1)	82
CHURCH HISTORY,	(1)	86	CHURCH HISTORY,	(1)	86

SENIOR CLASS.

English,	(4)	61	English,	(4)	62
Philosophy of History,	(3)	85	Philosophy of History,	(3)	85
Ontology and Cosmic Philosophy,	(4)	111	Epistemology, Psychology,	(4)	112, 113, 117
History of Philosophy,	(1)	118	History of Ancient Philosophy,	(1)	118
Economics,	(2)	47	Economics,	(2)	48
Oratory	(1)	101	Oratory,	(1)	101
Natural Theology,	(2)	114	Ethics,	(2)	115, 116
French,	(3)	66	French,	(3)	66
German,	(4)	79	German,	(3)	73

ELECTIVES.

Biology,	(3)	6, 7	Biology,	(3)	6, 7
Principles of Government,	(3)	49	Sociology,	(3)	52
Public Finance	(2)	50	Representative Government,	(2)	51
American History,	(2)	83	American History,	(2)	83
History of Our Times,	(1)	80	History of Our Times,	(1)	80
Spanish,	(3)	125	Spanish,	(3)	126, 127
Pedagogy,	(3)	103, 105	Pedagogy,	(3)	103, 105

PEDAGOGY.

The regular College work in logic and psychology satisfies the requirements of both State and City Superintendents of Public Instruction, under whose immediate direction examinations in the history of education and in method are held. Upon completing a satisfactory examination in these subjects, the candidate receives a license to teach for three years, after which period, if successful experience can be demonstrated, the provisional license may be exchanged for a life certificate.

The main requisite is that the candidate be a graduate from a college or university recognized by the Regents of the University of the State of New York, wherein at least one year was spent in pedagogical study amounting to not less than 210 hours, with attendance upon lectures or recitations, as follows: logic or psychology, at least 90 hours; history and principles of education and methods of teaching, at least 120 hours.

The courses offered to the students in Pedagogy are:

JUNIOR YEAR.—Logic, 60 hours.
History of education and
Principles of education, 90 hours.

SENIOR YEAR.—Psychology, 90 hours.
Method in teaching, 60 hours.
Observation, 20 hours.

STATE REQUIREMENTS FOR THE STUDY OF LAW AND MEDICINE.

In the interest of students who intend, after graduation, to take up the study of law or medicine, the following notes are added:

An office clerkship is no longer required of young men applying for admission to the New York bar. Applicants must be at least eighteen years of age, in order to have their time of study counted toward the required period. If they are not graduates of a university or college in good standing, they must file with the clerk of the court of appeals a Regents' law-student certificate.

College graduates may complete the prescribed law course in two years.

The period of eighteen months of office clerkship required for admission is satisfied by an equal time spent in a New York law school.

Candidates for admission to a medical college must be at least eighteen years of age and present satisfactory evidence of moral character. If not graduates of a university or college in good standing, they must present a Regents' academic diploma or its equivalent.

Engineering Department

COURSE IN CIVIL ENGINEERING.

The work of this department is planned to give the student a liberal education, and to enable him, after graduating, to derive immediate profit from the practical experience of his professional career.

The course in civil engineering comprises surveying, road and railroad engineering, bridge engineering, hydraulics and water-works.

The work is both theoretical and practical. The lectures of the class-room are supplemented by field-work and visits to places of engineering interest in the vicinity.

The reading and discussion of the principal scientific and technical periodicals form an essential feature of this department.

Students who successfully complete this course receive the degree of Bachelor of Science in Civil Engineering.

The entrance requirements are the same as for the Arts Department, page 11.

THE COURSE IN CIVIL ENGINEERING.

FRESHMAN CLASS.

FIRST TERM.		
Analytical Geometry,	(3)	91
Physics,	(2)	119
Physical Laboratory,	(2)	
Surveying,	(3)	16
Chemistry,	(2)	11
Chemistry, Laboratory Work	(2)	12
English,	(4)	53, 55
German,	(4)	69
Descriptive Geometry,	(2)	42
Drawing,	(4)	39
Botany,	(2)	4, 6
Elocution,	(1)	98
Christian Doctrine,	(2)	121

SECOND TERM.		
Analytical Geometry,	(2)	92
Physics,	(2)	119
Physical Laboratory,	(2)	
Surveying	(3)	16
Chemistry,	(2)	13
Chemistry, Laboratory Work,	(2)	14
English,	(6)	53, 56
German,	(4)	69
Descriptive Geometry,	(2)	42
Drawing,	(4)	39
Elocution,	(1)	98
Christian Doctrine,	(2)	121

SOPHOMORE CLASS.

FIRST TERM.		
Mechanics,	(3)	94
Calculus,	(3)	93
Surveying,	(3)	17
Drawing,	(6)	39
Geology,	(2)	67
English,	(4)	58, 59
German,	(4)	70
Elocution,	(1)	99
Christian Doctrine,	(2)	122

SECOND TERM.		
Mechanics,	(3)	94
Calculus,	(3)	93
Surveying,	(2)	17
Graphic Statics,	(2)	44
Design Problems,	(6)	45
Geology,	(2)	68
Building Materials and Application	(2)	38
English,	(4)	57, 59
German,	(4)	70
Elocution,	(1)	99
Christian Doctrine,	(2)	122

JUNIOR CLASS.

FIRST TERM.

Mechanics and Strength of Materials,	(4)	95
Masonry Structures and Foundations,	(3)	20, 23
Metallurgy,	(2)	15
Physics,	(3)	120
Physical Laboratory,	(2)	
Road and Railroad Engineering,	(3)	18, 22
Design Problems,	(8)	45
Surveying,	(2)	19
English,	(1)	55
Astronomy,	(2)	1
Oratory,	(1)	99
Philosophy,	(4)	107, 109
Christian Doctrine,	(2)	123

SECOND TERM.

Thermodynamics,	(2)	97
Physics,	(3)	120
Physical Laboratory,	(2)	
Astronomy,	(2)	1
English,	(1)	55
Oratory,	(1)	100
Trusses,	(4)	28
Road and Railroad Engineering,	(3)	18, 30
Design Problems,	(8)	45
Tunneling,	(2)	25
Excavations,	(2)	26
Philosophy,		108, 109
Christian Doctrine,	(2)	123

SENIOR CLASS.

FIRST TERM.

Bridges and Building,	(6)	29
Hydraulics,	(3)	23
Water Supply,	(3)	31
Sewers,	(2)	27
Cement Laboratory,	(2)	24
Design Problems,	(8)	46
English,	(1)	54
Oratory,	(1)	100, 101
Natural Theology,	(2)	114, 115

SECOND TERM.

Bridges,	(6)	29
Contracts and Specifications,	(2)	32
Railroad Engineering,	(3)	30
Design Problems,	(8)	46
English,	(1)	54
Oratory,	(1)	100, 101
Thesis,	(2)	
Ethics,	(2)	116

HIGHER DEGREES.

Bachelors of Arts may obtain the Master's degree by pursuing an approved course of study and giving satisfactory evidence of scholarship. If such post-graduate study is not pursued in the College, the degree will not be conferred within two years after graduation.

Professional study, as such, does not entitle one to the Master's degree, but original research or special and scholarly study connected with a profession may, at the discretion of the Faculty, be accepted.

Essays, theses, and dissertations intended for the Master's degree must be presented at least one month before the end of the academic year and must contain, at least, 3,000 words. The bibliography or list of works consulted must, in each case, be appended to the thesis.

If a candidate's thesis is approved, he will be informed as to the time when he will be required to meet the Board of Examiners for any further test of his qualifications which may be deemed necessary.

Bachelors of Science in Engineering may obtain the degree of Civil Engineer one year after graduation on the presentation of an approved thesis.

Courses of Study

COURSES OF STUDY.

For the Master's Degree.

For Master of Arts.

Any one of the following courses:

I. Moral Philosophy, with written thesis, making special application of its principles to mooted questions of the day.

II. Plato and Aristotle, with the history of the influence of Greek philosophy on modern thought.

III. A comparative study of the psychology of St. Thomas Aquinas and modern psychology.

IV. A comparative study of Thomistic ethical principles and current theories.

V. A critical study of Locke's influence on modern philosophy.

VI. A critical study of the rise of Kantianism.

VII. A critical study, with practical applications, of any *one* of the following psychologic principles as applied in teaching:

(*a*) Interest; (*b*) Apperception; (*c*) Attention; (*d*) Personal Equation; (*e*) Imitation; (*f*) Free Will; (*g*) Character; (*h*) Humor; (*i*) Imagination.

VIII. A critical examination of current errors in logic, psychology, or ethics.

X. A thorough criticism of any one of the accepted texts in logic, psychology, or ethics.

XI. A critical examination of any one of the accepted texts in the history of education.

XII. A critical study of the growth of the novel.

XIII. English literature. Critical analysis of any classic author from the Catholic standpoint.

XIV. French literature, with translations at sight from any classic author, and a critical French essay on his work or his age.

XV. German literature, with translation at sight from any classic author, and a critical German essay on his work or his age.

XVI. Church History. Selections of important periods for research, with essays embodying results of investigation.

XVII. A discussion of current theories in political economy.

XVIII. A critical examination of any one of the texts commonly accepted as standard in political economy.

XIX. A detailed examination with applications of the relations of political economy to ethics.

XX. A critical study of Leo XIII.'s encyclicals on political questions. Discussion of prevalent sociological theories.

XXI. Suggested ways and means of perfecting the federation of Catholic societies.

XXII. Amplification of topics discussed by the Catholic Truth Society.

For Master of Science.

Any one of the following courses:

I. Higher coordinate geometry of two dimensions; coordinate geometry of three dimensions.

II. General theory of equations.

III. Higher parts of the integral calculus; differential equations; calculus of variations; calculus of quaternions.

IV. Rigid dynamics.

V. Fourier's theorem and its applications.

VI. The wave theory treated mathematically or experimentally, or both.

VII. The electro-magnetic theory of light.

VIII. Phenomena of Interference, diffraction and polarization.

IX. Spectrum analysis.

X. The kinetic theory of gases.

XI. Conservation and dissipation of energy.

XII. Application of the doctrine of energy to the phenomena of chemical combination.

XIII. Thermal measurement of energy.

XIV. Properties and phenomena of the ether.

XV. Discharge of electricity through gases.

XVI. Recent views of electricity.

XVII. Higher parts of static and dynamic electricity.

XVIII. Phenomena of alternating currents.

XIX. Astrophysics.

XX. Special studies in civil engineering.

XXI. Special studies in electrical engineering.

These subjects are merely suggestive, and are intended to assist the candidate in the choice of a subject for his thesis. The treatment of the subject should be thorough and comprehensive, and should embody the result of original thought or of experimental investigation, as the case may require.

Published works of the candidate on the subject selected, articles in reviews or scientific periodicals, or contributions to the transactions of learned societies will receive due consideration from the Board of Examiners.

COURSES OF STUDY.

ASTRONOMY.

1. Descriptive Astronomy.—The dimensions of the earth, its mass and motions. Phenomena depending on the axial and the orbital motion of the earth. Determination of the figure and magnitude of the earth. Kepler's laws and applications. Phenomena depending on change of place. Fundamental principles of celestial mechanics. Dimensions and configuration of the solar system. The sun and planets. Tides, eclipses, transits.

Young, *The Elements of Astronomy*.

Reference: Lodge, *The Pioneers of Science*.

Practical Astronomy.—Construction, adjustment, and use of the sextant, transit, and equatorial telescope. Determination of the meridian, latitude, and local time.

BIOLOGY.

2. General Principles of Biology.—Study of typical forms illustrating structure and function. Lectures and laboratory work.

Parker, *Lessons in Elementary Biology*.

3. General Zoölogy.—(*a*) Zoölogy of invertebrates: lectures, recitations, and laboratory practice.

(*b*) Zoölogy of vertebrates: lectures, recitations, and laboratory practice.

4. Structural Botany.—The principal features of plant structure and classification, with reference to trees, their character, and uses. Lectures on organization of higher plants, illustrated by specimens, and followed by laboratory work.

5. Study of Phenogams.—The characters of the natural orders. Lectures and laboratory work.

6. Plant Histology and Physiology.—The vegetable cell, its structure, composition, modification; structure and development of flower, fruit, seed; protoplasm, vegetable growth, movements, reproduction.

7. Study of Cryptogams.—Study of the structure and development of algæ, fungi, lichens, mosses, ferns, and pteridophytes. Relationship of cryptogams and phenogams.

9. Human Anatomy and Physiology.—Lectures, illustrated with charts, models and lantern slides.

10. The Nervous System and Its Terminal Organs.—Lectures and illustrations, with charts, models and lantern slides.

CHEMISTRY.

11. General Inorganic Chemistry.—Preparation, properties and uses of the more important elements and inorganic compounds.

Newell, *Descriptive Chemistry*.

12. Chemical Laboratory.—Practice in the methods of preparing and testing the common elements and their important compounds.

13. Qualitative Analysis.—Description of a method of separation which experience has proved to be sufficiently simple and accurate.

14. Laboratory Work.—Separation of the ordinary bases and acids; Garvin, *Special tests*.

15. Metallurgy of Iron and Steel.—Study of the physical and chemical properties as well as the constitution and manufacture of cast iron, wrought iron, and steel.

16. LAND SURVEYING.—Theory and general principles. Adjustment and use of chain, tape, rod, vernier, level, and compass. Simple leveling with ordinary level, hand-level, and barometer. Making of profile. Pacing, chain and compass surveying. Balancing, plotting, supplying omissions, and computing areas.

17. LAND SURVEYING.—Theory, adjustment and use of transit. Transit, stadia, and topographical surveying. Leveling, contour lines, plotting, computing areas, use of plane table.

Raymond, *Plane Surveying.*

18. ROAD ENGINEERING.—Location and grading of country roads. Staking out of work. Draining and protection works. Maintenance. Foundations. City streets. Pavements: stone, wood, asphalt, brick. Tools and machinery employed in road construction. Specifications and contracts regarding roads.

Byrne, *Highway Construction.*

19. LAND SURVEYING.—City surveying, triangulation, hydrographic and mining surveying.

20. FOUNDATIONS.—Construction of timber foundation. Cofferdams of timber. Open and pneumatic caissons. Trestle foundations. Piles in foundations. Economical considerations in foundations. Estimates of cost. Methods for deep foundations.

Patton, *Foundations.*

21. TIMBER STRUCTURES.—Culverts. Pile bents. Frame bents. Bracing compound timber structures. Trestles on curves. Floor details. Connection with embankment, derailing devices, field engineering, and erection of trestle, design and estimates for a completed trestle.

Foster, *Treatise on Modern Trestle Bridges.*

22. Railroad Surveying.—Reconnaissance and preliminary surveys. Organization of work. Simple, compound, and transition curves. Turnouts. Cross-section work. Computation of earthwork.

Searle, *Field Engineering*.

23. Masonry Structures.—Theory of the slope of earth embankments ; graphical and analytical methods for determining earth-pressure as well as the thickness of retaining-walls and dams. Arches. Masonry culverts and bridges.

Baker, *Masonry Construction*.

24. Cement and Mortar.—Testing in laboratory.

25. Tunneling.—Timbering and lining of tunnels. Excavation of tunnels through rock, and through loose and treacherous soils. Subaqueous tunnels. Open cut. Subways. Ventilation of tunnels.

Prelini, *Tunneling*.

26. Excavations.—Earthwork, excavations by hand and machine, rock excavation, hauling on horizontal and inclined roads, hoisting cableways, trench cutting, embankment constructions, dredging and dredged materials.

Prelini, *Earth and Rock Excavation*.

27. Sewers and Sewage Disposal.—Dimensions and materials used, location, precautions in construction, study of examples, estimate of cost, surface drainage in towns and cities, separate and combined systems, capacities of main and branches, grade, flow, and discharge of sewers. Methods of sewage disposal, discharge into streams, gravity and chemical precipitation. Filtration.

28. Theory of Trusses.—Truss elements, loads and reactions for trusses of various designs, influence lines, and position of loads for maximum bending moment. Wheel-loads and conventional systems of analysis, stress-strain diagrams, secondary stresses in trusses, applications to highway and railroad bridges.

Merriman and Jacoby, *Roofs and Bridges*.

29. Roofs, Bridges, and Buildings.—Different classes of bridges, riveted truss or lattice bridges, pin-connected bridge, design of details for roofs and bridges, floor systems, lateral and transverse bracing. The plate girder in detail, swing bridge (different kinds), end-lifting apparatus, machinery for operating cantilever structures, single and double track trestles or viaducts in steel or timber, elevated railroads, stand-pipes. Complete designs, with estimate of cost for structure and erection.

Merriman and Jacoby, *Roofs and Bridges.*

30. Railroad Economics.—General theory of railroad projects. Probable volume of traffic and its probable growth. Effect of alignment on resources and operating expenses. Methods of railroad management. Construction of railroads; track laying and maintenance, frogs and switches, track accessories, records and reports.

Wellington, Tratman, *Track and Track Work.*

31. Irrigation and Water Supply.—Drainage areas, rainfall, evaporation. Reservoir construction. Dams for storage. Regulators. Distributing reservoirs and purification of water. Velocity of flow and dimensions of canals. Distributing and lateral canals.

32. Contracts and Specifications.—Johnson.

33. Hydraulics.—Flow of water through orifices and over weirs, gauging of weirs. Flow of water in canals. Formulæ for discharge of water from locks. Motion of water in pipes. System of pipes. Gauging water in rivers. Backflow. Resistance of water in a river, in a canal. Hydraulic motors. Ship railways. Laboratory work.

Merriman, *Hydraulics.*

34. Inspection Visits.—Visits to engineering works and manufacturing establishments.

35. Field Work.—Surveying. Compass and transit surveys. Adjustment of instruments. Farm survey. Angle reading, repetition. Azimuth traverse.

36. Field Work.—Leveling. Contour sketching. Topographical surveying.

37. Railroad Survey.—Reconnaissance and preliminary survey. Location of line. Profile and cross-section. Computation of earth work. About two miles of road are run, and the students make all calculations required in the regular routine of office work.

38. Building Materials.—Stones: quarrying, working, employment. Bricks, manufacture and employment. Production and testing of lime, hydraulic lime, and cement; mortar; concrete; timber; metals; miscellaneous materials.

DRAWING.

39. Mechanical Drawing.—Use of instruments, geometrical problems, lettering, plans, elevations.

40. Mechanical Drawing.—Elementary projections, intersections, shades and shadows. Tinting drawings, pen-and-ink sketching.

41. Mechanical Drawing.—Stone-cutting and its applications to culverts, sewers, etc. Tracing and blue-prints.

42. Descriptive Geometry.—Demonstrations and execution of eight plates.

Faunce, *Descriptive Geometry*.

43. Drawing.—Plots of survey, topographical maps, contour maps, profiles.

44. Graphic Statics.—Resolution of concurrent and non-concurrent forces; determination of moments, of internal stresses, of centroids and moments of inertia. Application to roofs and trusses.

Hoskin, *Elements of Graphic Statics*.

45. Design Problems.—Graphic solution of problems concerning the slope of embankments, earth-pressure against retaining-walls and dams; stability of retaining-walls, dams, and arches. Design of a masonry bridge with plan, elevation, longitudinal and cross-sections.

46. Bridge Design.—Design of roof trusses and fixed steel bridges. Drawbridges. Elevated steel structures. Skeleton of a steel building. Computations and working drawings are made from specifications for a railroad bridge of short span, and estimates of its weight are prepared.

ECONOMICS, SOCIAL AND POLITICAL SCIENCE.

47. Economics.—Principles of production, distribution, exchange, money, banking, international trade-relation of labor and capital, present organization of industry, currency legislation of the United States.

48. Economic history of England and America.

49. Principles of government, legislation, the judiciary, the executive, suffrage, and finance.
Fiske, *Civil Government.*

50. Public expenditure. Sources of state income. Development, classification, incidents and effects of principal taxes.
Reference: Adam's *Science of Finance.*

51. Political representation in Colonial period as compared with representation at present.

52. Principles of Sociology.—Psychology of social types. Historical aspects of social organization, both ancient and modern. Study of modern social problems.

53. English Composition.—The theory of composition with special reference to the qualities of diction and to the structure of the sentence and the paragraph. The study of exposition, narration and description. Three short themes weekly. Longer themes at regular intervals. Comments and criticisms.

Genung, *Practical Rhetoric.*

54. Argumentation and Debate.—Study of the nature of argumentation. Exercises in analysis of classic argumentative speeches. Study of the rules and tests of evidence. Theory and practice of brief-drawing. Original forensics and argumentative essays.

Baker and Huntington, *Principles of Argumentation.*

55. History of English Literature.—Rapid survey of the growth and development of English literature preparatory to an intensive study of special periods. Reading of representative masterpieces.

Brother Noah, *Manual of English Literature.*

56. History of American Literature.—Study of the growth and special characteristics of American literature as an introduction to a more intensive consideration of special periods.

Brother Noah, *Manual of American Literature.*

57. Literature of the Drama.—Study of the origin and development of the English drama. Critical reading of Shakespeare's *Hamlet* or *King Lear.*

Woodbridge, *The Drama: Its Laws and Its Technique;* Brandes, *William Shakespeare.*

58. English Literature of the Nineteenth Century.—Study of the leading English authors of this period, and a critical reading of selected classics indicated in Brother Azarias's *Books and Reading.*

59. Principles of Versification.—Study of English verse-structure. Exercises in scansion and verse-making. Original poems.

Gummere, *Handbook of Poetics*.

60. Anglo-Saxon Literature.—Study of the various influencing agencies in Old English literature, and the growth and development of Old English thought from the first dawnings of history down to the Norman Conquest. Critical reading of *Beowulf*.

Brother Azarias, *Development of Old English Thought*.

61. Philosophy of Literature and of Style.—An examination into the fundamental principles of literature and style.

Brother Azarias, *Philosophy of Literature;* Spencer, *Philosophy of Style*.

62. Principles of Literary Criticism.—Examination into the Spiritual in Literature.

Brother Azarias, *Phases of Thought and Criticism;* Gardiner, *The Bible in Literature;* Thomas à Kempis, *The Imitation;* Chateaubriand, *The Genius of Christianity;* Newman, *Essay on the Development of Christian Doctrine;* Gigot, *Introduction to Sacred Scriptures*.

FRENCH.

63. François, *Advanced French Prose Composition*.
Molière, *Le Misanthrope*.
Bowen, *French Lyrics*.
Hugo, *Hernani*.
Michelet, *Extraits de l'histoire de France*.
Corneille, *Polyeucte*.

64. History of French Literature in the Seventeenth Century.—A study of the political, social, and literary development of France during the Seventeenth Century.

Fortier, *Histoire de la Littérature Française.*

Warren, *French Prose of the Seventeenth Century.*

Selected plays of Corneille, Racine, and Molière.

Boileau, *L'Art Poétique.*

65. History of French Literature in the Eighteenth Century.—Life and times of Voltaire.

Fortier, *Histoire de la Littérature Française.*

Selections from authors studied.

International correspondence.

66. History of French Literature in the Nineteenth Century.—Special attention to the works of Hugo, de Lamartine, and Chateaubriand. Selections from de Musset, Dumas, Balzac, and de Maupassant.

Fortier, *Sept Grands Auteurs du Dix Neuivéme Siècle.* International correspondence.

GEOLOGY.

67. Descriptive and Determinative Mineralogy; Physical, Historical and Stratigraphical Geology.

Lectures and laboratory work.

68. Geology.—Lectures and laboratory work. A more advanced discussion of the subjects treated above.

Dana, *Text-book of Geology.*

GERMAN.

69. Freytag, *Soll und Haben;* Schiller, *Maria Stuart;* Lessing, *Minna von Barnhelm;* Goethe, *Egmont* or *Iphigenie auf Tauris.*
Prose Composition, Wesselhoeft.

70. Freytag, *Bilder aus der deutschen Vergangenheit;* Sybel, *Die Erhebung Europas;* Dippold, *Scientific German Reader;* Prehn, *Journalistic German.*
Prose Composition, Harris.

71. Schiller, *Wallenstein;* Lessing, *Nathan der Weise;* international correspondence.

72. History of German Literature.—Lectures, themes, readings.
International correspondence.

73. Goethe, life and works: *Faust*, *Hermann und Dorothea*, *Tasso.*
Selections from *Dichtung und Wahrheit.* International correspondence.
Advanced Prose Composition.

HISTORY.

74. Ancient History.—History of Greece, with special reference to its literature, politics, and commerce.

75. Ancient History.—Rome, from the Founding of the City to the Fall of the Western Roman Empire, with special reference to literature, politics, and commerce.

76. Medieval History.—From the Fall of the Western to the Fall of the Eastern Roman Empire. The Holy Roman Empire and the Papacy receive special attention.

77. The Renaissance and the Reformation.—The principal subjects studied are the revival of learning, the age of discovery, the Reformation in England, France and Germany ; the Thirty Years' War, and the Peace of Westphalia.

78. English History.—In this course special attention is given to the constitutional and social history of England.

79. French History.—From the establishment of the French monarchy to the French Revolution.

80. The History of the Nineteenth Century, Beginning with the Year 1815.—This course treats principally of the restoration of the Bourbons, the Revolutions of 1830 and 1848, the Austro-Prussian war, the Franco-Prussian war, the Unification of Germany and of Italy.

81. American Political Institutions.—Nature of state and national systems; organization and powers of legislative, executive and judicial departments of Federal Government.

82. European Constitutions.—Political institutions of England and Switzerland as compared with those of the United States.

83. Constitutional History of the United States.—Colonial Governments, the confederation, the federal constitution, national vs. state sovereignty.

84. Constitutional History of the United States.—War of 1812, federal judiciary, nullification act, state constitutions, the Civil War.

85. The Philosophy of History, based principally on the works of Balmes, Schlegel and Allies.

86. Church History.—From the Founding of the Church to the Protestant Reformation, based on the works of Allies, Montalembert, Mann, Janssen, and Pastor. Illustrated lectures including the history and geography of the Holy Land.

ITALIAN.

87. Elementary Course.—Grammar. Conversation. Dictation. Reading: Bowen's Reader; Cuore, *De Amicis;* Manzoni, *I Promessi Sposi;* Testa, *L'Oro e l'Orpello.*

88. Advanced Course.—Dante's life and works. Critical study of the *Divina Commedia.*

References: Scartizzini, *Companion to Dante;* Brother Azarias, *Spiritual Idea in Dante's Divina Commedia.*

MATHEMATICS.

89. Algebra.—

Hawkes, *Advanced Algebra.*

90. Trigonometry.—

Wentworth, *Plane and Spherical Trigonometry.*

91. Analytical Geometry.—Including the general equation of the second degree.

Wentworth, *Analytical Geometry.*

92. Analytical Geometry.—The straight line, the plane and surfaces of revolution.

Wentworth, *Analytical Geometry.*

93. Calculus.—Differential and Integral, with applications to geometry, mechanics, and physics.

Osborne, *Differential and Integral Calculus.*

Campbell, *A Short Course in Differential Equations.*

MECHANICS.

94. Mechanics.—Principles of statics and dynamics; elements of hydrostatics.

Loney, *Mechanics and Hydrostatics.*

95. Mechanics of Materials.—Resistance and elasticity of materials, cantilever, simple and continuous beams, columns, torsion and shafts, stresses, resilience, tension and compression, flexure in beams, shear and torsion, true and apparent stresses, design and construction of beams in wood and steel, design of girders.

Merriman, *Mechanics of Materials.*

96. Mechanics of Solids and Liquids.—Advanced.

A knowledge of the calculus will be required for this course. Statics of concurrent and parallel forces, theory of couples, friction, mass-moments. Theorems of Guldinus, determination of centroids. Rectilinear and parabolic motion. Work and energy. Impulsive forces. Direct and oblique impact. Circular motion. Angular velocity and acceleration. Simple harmonic motion. Motion in a vertical curve. The conical and the ordinary pendulum. Determination of moments of inertia. Theory of potential. Derived units and their dimensions. Pressure due to gravitating liquids, center of pressure, equilibrium of floating bodies, determination of metacenter. The barometer and its application to hypsometry. Compressed-air manometers, exhausting and condensing air-pumps.

Maurer, *Technical Mechanics.*

97. Thermodynamics.—Heat, steam, fuel economy, engine construction, engine tests, boiler construction and tests.

Lectures supplemented by visits to plants and examinations of machines in actual operation.

Jamieson, *The Steam Engine.*

ORATORY.

98. Elocution.—Beginners' course in the principles of declamation, with weekly exercises.

99. Elocution.—Advanced courses in the principles of declamation, with weekly exercises.

100. Forensics.—Study and analysis of typical British and American argumentative orations.

101. Debates.—Theory of the preparation of debates. Oral discussion of questions of the day.

PEDAGOGY.

102. Principles of Teaching.—Importance of knowledge of physical, mental, and moral laws. Development of mental power. The teacher and his qualifications. School organization, hygiene, and discipline. Aids to teaching. Art of questioning and answering. Class examinations.

Butler, *The Meaning of Education.*
Dewey, *School and Society.*
Harris, *Psychologic Foundations of Education.*
Horne, *The Philosophy of Education.*
Shaw, *School Hygiene.*

103. Theory and Practice of Teaching.—Foundations of method and general principles. Analysis and synthesis. Individual vs. simultaneous method. Class exercises and drill on subjects taught in elementary and secondary schools.

Landon, *Principles and Practice of Teaching.*
Frère Achille, *Méthodologie* and *Vade Mecum.*
Brothers of the Christian Schools, *Practical Pedagogy.*

104. History of Education.—*Pre-Christian Era:* Chinese, Hindoos, Egyptians, Persians, Israelites, Greeks, and Romans. Notes on the educational leaders in each. Education during the Middle Ages: Monasticism, Scholasticism. The Crusades. Rise of Universities. Noted educators.

Brother Azarias, *Educational Essays.*
Drane, *Christian Schools and Scholars.*

105. History of Education.—Period of the Renaissance, its characteristics; humanistic educators. Special study of the following educators: Sturm, Loyola, Fénelon, De La Salle, Locke, Rousseau, Basedow, Pestalozzi, Froebel, Comenius, Jacotot, Spencer, Mann, Barnard, Parker. History of the school system of the State of New York.

Monroe, *Text-book in the History of Education;* Davidson, *A History of Education;* Painter, *A History of Education.*

106. Special Method.—

Elementary English.

Chubb, *The Teaching of English.*
Arnold, *Reading, How to Teach It.*
Hinsdale, *Teaching the Language Arts.*
Hall, *How to Teach Reading.*
Farnham, *The Sentence Method.*

Secondary English.—

Carpenter, Baker, and Scott, *The Teaching of English.*
Laurie, *Language and Linguistic Method.*
Bates, *Talks on the Study of Literature.*
Corson, *The Aims of Literary Study.*

Elementary History.—

McMurry, *Special Method in History.*
Report of the Committee of Seven.
Report of the Committee of Ten.
Report of a Committee of the National Historical Association on the Teaching of History in Elementary Schools.

Secondary History.—

Bourne, *The Teaching of History and Civics.*
Langlois and Seignobos, *Introduction to the Study of History.*
Lamprecht, *What is History?*
Report of the Committee of Seven.

Elementary Mathematics.—

Smith, *The Teaching of Elementary Mathematics.*
McLellon and Dewey, *The Psychology of Number.*
Fitch, *Lectures on Teaching.*

Secondary Mathematics:

Fink, *History of Mathematics.*

Young, *The Teaching of Mathematics in Prussia.*

De Morgan, *On the Study and Difficulties of Mathematics.*

Young, *The Teaching of Mathematics in Secondary Schools.*

Elementary Science:

Redway, *The New Basis of Geography.*

Geikie, *The Teaching of Geography.*

Bailey, *The Nature Study Idea.*

Hodge, *Nature Study and Life.*

Secondary Science:

Lloyd and Bigelow, *The Teaching of Biology.*

Smith and Hall, *The Teaching of Chemistry and Physics.*

Foreign Languages: French and German.

Widgery, *The Teaching of Languages in Schools.*

Bagster-Collins, *The Teaching of German in Secondary Schools.*

Report of the Committee on Modern Languages.

PHILOSOPHY.

107. Formal Logic.—The idea. Errors as to the nature of ideas in modern English and German Philosophy. Definition. Division. The nature of judgment. The value of the syllogism.

108. Critical Logic.—The possibility of certainty. Scepticism. Veracity of the senses and the intellect. Idealism vs. Realism. Universals. Authority and belief.

109. Method.—General principles. Special methods. Deduction and induction. Methods of observation. Methods of explanation.

110. Metaphysics.—The Aristotelian transcendentals. Reality of substances. Causation. Errors concerning causation. Final causes.

111. Cosmic Philosophy.—Nature, origin, and duration of the universe. Ultimate constituents of bodies. Theory of matter and form. Laws of nature. Possibility of miracles. The concepts of natural science and scholastic philosophy.

112. Psychology.—Rational vs. experimental psychology; value of each. Faculty, habit, and action. The life principle. Vegetative Life. Theory of sensation. Qualities of sensation. Intellection. Attention. Apperception. Association of ideas. Evolutionism. Heredity. Freedom of will. Spirituality and immortality of the soul. Psychology and the teacher.

113. Epistemology.—Critical examination of various theories of knowledge.

114. Natural Theology.—Proof of God's existence and providence—Deism, pantheism, agnosticism, atheism. Existence of evil. Preservation of creatures. Divine concurrence.

115. General Ethics.—Nature of a human act. Ultimate end of human actions. Determinants of morality. Does the end justify the means? Hindrances to the perfection of a human act. The passions, habit, virtue, vice.

116. Special Ethics.—Man's rights and duties as an individual. Man's duties to God. Adoration, love, obedience. Man's duties to his neighbor as regards soul and body. Man's duties to himself as to soul and body. Suicide and dueling.

Man's rights and duties as citizen. The state. Its constituent elements. Its origin, end, scope, and limits.

Common law of nations. Peaceful relations among nations.

Ecclesiastical society. The Church. Its origin and constitution. Its end and limits. Its superiority to the state. Its mission to the modern world.

117. Experimental Psychology.—Elements and general methods. Elements of mental life; sensation, feeling, conation. Experiments on the outer senses and on the association of ideas with special application to Pedagogy.

118. History of Ancient Philosophy.—Principles of the great Founders of Ancient Schools, their vitality as illustrated in modern views. History of Medieval Philosophy. History of Modern Philosophy.

Turner, *History of Philosophy.*

PHYSICS.

119. Light.—Laws of propagation; velocity and intensity of light. Photometry. Reflection and refraction; formation of images by mirrors and lenses. Spectrum analysis and study of optical instruments.

Stewart, *Text-book of Light.*

Heat.—Temperature and its measurement. Expansion of solids, liquids, and gases. Change of state. Conduction, convection, radiation and absorption of heat. Vapor tension. Latent heat and specific heat. Relation between heat and work; energy, actual and potential.

Stewart, *Text-book of heat.*

Sound.—Production and propagation, velocity, reflection, and refraction. Simple cases of resonance and interference. Intensity, pitch, and quality. Transverse vibrations of strings. Longitudinal vibration of columns of air and of rods; vibrations of plates and membranes. Determination of pitch and wave-length. Doppler's principle and applications.

120. Electricity and Magnetism.—Fundamental phenomena of static electricity; general laws of distribution and induction. The Leyden jar and other condensers. Influence machines. Atmospheric electricity. Use of quadrant electrometer. Primary and secondary batteries; electromotive force, strength of current, division of current in a network of conductors. Ohm's law and applications. Magnetic, thermal, and chemical effects of the current. Laws of electrolysis. Measurement of current and resistance. The electromagnet. Current induction, induction by magnets, the induction coil. Continuous-current dynamo and motor; the alternator. The electric transmission of energy. Electric lighting. Thermo-electric currents. Telegraphy and telephony.

Permanent magnets and molecular theory; magnetic induction; the magnetic circuit. Comparison of magnetic fields. Theory and use of the magnetometer and dip-circle. Terrestrial magnetism and determination of the magnetic elements; magnetic charts.

Thompson, *Lessons in Electricity and Magnetism.*

Physical Laboratory.—Study of the magnetic field due to a magnet and combination of magnets. Curve of free magnetism. Law of the inverse square. Comparison of magnetic moments. The ratio $\frac{M}{H}$, also the product MH. Determination of magnetic dip. Laying out the meridian; magnetic declination. Measurement of electromotive force. Resistance of conductors. Capacity of condensers. Battery resistance and current strength. Measurements relating to storage batteries. Use of the tangent galvanometer, ammeter and voltmeter for direct and alternating currents; the electro-dynanometer; the copper voltameter. Quantitative estimate of heat development in a circuit.

RELIGION.

Christian Doctrine.

121. Dogma.—Explanation of the principal dogmas, with special insistence on the continuity of the Church. The Church and science. Objections.

Christian Brothers, *Manual of Christian Doctrine.*

122. Moral.—Explanation of the fundamental principles of Christian morality as contained in the decalogue.

Christian Brothers, *Manual of Christian Doctrine.*

123. Worship.—Grace, prayer, and the sacraments, with special references to the Council of Trent and the tenets of Protestantism.

Christian Brothers, *Manual of Christian Doctrine.*

124. Apologetics.—Nature and necessity of Revelation. Its criteria. Modern objections.

SPANISH.

125. Elementary Course.—Grammar, reading, dictation, composition; De Tornos' Method; Ramsey's *Elementary Reader;* Alarcon, *El Capitan Veneno;* Galdós, *Doña Perfecta, Marianela;* Valera, *El Pájaro Verde;* Fernandez de Moratin, *El Si de las Niñas.*

126. Intermediate Course.—Grammar, reading, dictation, composition; Ford's *Spanish Composition;* Valdes, *José;* Cervantes, *Don Quijote;* Larra, *Partir á Tiempo;* Pereda, *Pedro Sanchez;* Valera, *Estudios Criticos.*

127. Advanced Course.—Composition, reading of classic dramas: Calderon, *El Principe Constante; La Vida es Sueño;* Lope de Vega, *La Estrella de Sevilla.* Study of Spanish Literature.

Reference: Fitz-James Kelly, *History of Spanish Literature.*

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HANLEY, REV. PETER A., M.A. '99 . Providence, R. I.
*HANNIGAN, REV. FRANCIS E., M.A.
'79 . New York City
HANRAHAN, EDWARD A. . . '06 . New York City
HARRINGTON, REV. JOHN J. . '90 . New York City
HASSETT, EDWARD, M.A. Causa honoris
'93 . New York City
HAVARD, LIEUT. COL. VALERY, M.S., M.D. . . . . '68 . Washington, D. C.

*HAWKINS, WILLIAM J.	'85	Red Bank, N. J.
HAYES, REV. JAMES W., M.A.	'71	New Brunswick, N. J.
HAYES, RT. REV. MGR. P. J., M.A.	'88	New York City
HAYES, REV. ALBERT J.	'88	Cazenovia, N. Y.
HAYES, JAMES D., M.D.	'91	Torrington, Conn.
HEAFY, REV. THOMAS J., M.A.	'86	Croton-on-Hudson, N. Y.
HEALEY, JOHN EDWARD	'01	Troy, N. Y.
HEFELE, GEORGE H., C.E.	'92	New York City
HENNESSEY, FRANCIS X.	'06	New York City
HENRY, REV. EDWARD, B.	'95	Portland, Me.
HENRY, REV. WALTER G.	'98	New York City
*HEROLD, JOHN B., F.S.C., M.A.	'76	New York City
HEROLD, JUSTIN B., M.A., M.D.	Causa honoris '87	New York City
HICKEY, VALENTINE P.	'95	Brooklyn, N. Y.
*HIGGINS, REV. JOHN C., M.A.	'79	Syracuse, N. Y.
*HIGGINS, REV. EDWARD J.	'87	Albany, N. Y.
HOCTOR, JAMES E.	'85	New York City
HOLLAND, REV. CORNELIUS J.	'95	Providence, R. I.
HOLLAND, REV. JOSEPH F.	'00	New York City
HOLLAND, JOHN P., M.S.	Causa honoris '05	Newark, N. J.
HOPKINS, OTIS A., M.A.	'75	Binghampton, N. Y.
HOPKINS, REV. JOSEPH A., M.A.	'87	Oswego, N. Y.
*HORAN, REV. MICHAEL F.	'88	New York City
*HOWARD, REV. JOHN J.	'77	Hudson, N. Y.
HUGHES, JAMES J., M.A.	'96	New York City
*HUGHES, WILLIAM C., M.A.	'96	Brooklyn, N. Y.
HUNT, JOSEPH L.	'98	New York City
*HURLEY, REV. JOHN A., M.A.	'71	Fishkill, N. Y.
HURLEY, DANIEL J.	'83	New York City
HYNES, JOSEPH E.	'05	Troy, N. Y.
*IRVING, REV. THOMAS H.	'80	Ossining, N. Y.
JACKSON, JOSEPH R.	'00	Butte, Montana
JOHNSTON, REV. WILLIAM J.	'93	New York City
JORDAN, REV. JOHN T.	'98	New York City
KANE, JOSEPH J., M.A., M.D.	'89	Buffalo, N. Y.
KANE, JAMES J., M.A.	'01	Brooklyn, N. Y.
*KAVANAGH, DANIEL A.	'81	Cincinnati, Ohio
KEAN, REV. JOHN J., M.A., LL.D.	'66	New York City
KEAN, JOHN J., M.A.	'02	Brooklyn, N. Y.
KEARNEY, ALFRED A.	'79	New York City
KEARNEY, CHARLES R.	'82	New York City
KEARNEY, JOHN J.	'92	New York City

KEARNS, THOMAS J.	'02	New York City
KEEFE, REV. RICHARD J., M.A.	'76	White Plains, N. Y.
KEENAN, REV. THOMAS J., M.A.	'85	New York City
KEENAN, JAMES P., M.A.	'91	New York City
KEENAN, HENRY C., M.A., M.D.	'92	Brooklyn, N. Y.
KEENAN, ALBERT J., M.D.	'97	Brooklyn, N. Y.
KELIHER, REV. MICHAEL F.	'87	Westchester, N. Y.
*KELLY, THEODORE S.	'71	Brooklyn, N. Y.
KELLY, REV. JAMES S., M.A.	'71	New York City
*KELLY, REV. JAMES W., M.A.	'77	New York City
KELLY, REV. CORNELIUS S.	'84	Fall River, Mass.
KELLY, EDWARD H., M.A.	'85	New York City
KELLY, REV. THOMAS A.	'90	Fall River, Mass.
KELLY, FRANCIS R.	'94	New York City
KELLY, REV. JOHN T.	'96	New York City
KELLY, THOMAS P., F.S.C., C.E.	'99	Oakland, Cal.
*KENNAH, JAMES B.	'85	Albany, N. Y.
*KENNEDY, JOHN J.	'80	New York City
KENNEDY, LEO E.	'95	Brooklyn, N. Y.
*KENNY, REV. JOHN H., M.A.	'83	New York City
KENNEY, REV. JOHN L.	'99	New York City
KEOGH, MARTIN J., LL.D.	Causa honoris	
	'03	New Rochelle, N. Y.
KERENS, RICHARD, Jr., M.A.	'95	St. Louis, Mo.
KERWIN, REV. WILLIAM T.	'93	Brooklyn, N. Y.
KIFFEN, JOHN E., M.A.	'99	Long Island City, N. Y.
KILDUFF, REV. JOHN J.	'01	Cohoes, N. Y.
KING, THOMAS J.	'99	Providence, R. I.
KINNEY, PATRICK R., M.A.	'02	New York City
*KIRBY, REV. WILLIAM S.	'85	Southampton, N. Y.
KIRBY, JAMES P.	'00	Brattleboro Vt.
*KOINE, CHARLES M.	'85	Buffalo, N. Y.
KRACHT, GEO. W., M.A.	Causa honoris	
	'76	New York City
KUERZI, FRANCIS J.	'96	Rockaway Park, N. Y.
LADEN, JAMES E.	'04	New York City
LALLY, MICHAEL J.	'90	New York City
*LALOR, JOHN J., M.A.	Causa honoris	
	'69	Milwaukee, Wis.
LANDY, JAMES T.	'05	New York City
LANE, THOMAS R., M.A.	'73	New York City
*LANE, WILLIAM E.	'77	Hudson, N. Y.
LANE, REV. FLORENCE A.	'94	Palmer, Mass.
*LARKIN, WILLIAM R., M.A., M.D.	'79	New York City

LARKIN, JOHN H., M.A., M.D. . '91 . New York City
*LARKIN, JAMES P. . . . '94 . Utica, N. Y.
*LARKIN, JOHN T. . . . '99 . New York City
LA ROSA, GUSTAVO F., C.E. . '03 . Havana, Cuba
LASTRAPES, BRONIER H. . . '86 . New Orleans, La.
LASTRAPES, WILLIAM R., M.A., M.D. '87 . Opelousas, La.
LAUTERBACH, EDWARD, LL.D. Causa honoris '05 . New York City
LAVELLE, RT. REV. MGR. MICHAEL J., M.A., LL.D. . . . . '73 . New York City
LAVELLE, REV. FRANCIS E. . '90 . New York City
LAVIN, DESIDERIO, M.S. . . '01 . New York City
LEDDIN, MICHAEL J. . . . '82 . Montgomery, N. Y.
LENES, REV. FRANCIS C., LL.D. '80 . Amenia, N. Y.
LENNON, REV. JOHN J., M.A. . '86 . New York City
LEON, ALEXIS M., M.A., M.D. . '75 . New York City
LICARI, JEROME J. . . . '02 . New York City
LICARI, LAWRENCE H. . . '06 . Brooklyn, N. Y.
LINDSMAN, REV. JOHN L. . '89 . Fulton, N. Y.
LOFTUS, JAMES F. . . . '85 . Buffalo, N. Y.
LOGUE, DANIEL F. . . . '98 . New York City
LONERGAN, REV. JOHN P., M.A. '80 . Hyde Park, N. Y.
LONERGAN, REV. MICHAEL J. . '84 . Hyde Park, N. Y.
LONERGAN, JOHN E., C.E. . '03 . Brooklyn, N. Y.
LOPEZ, REV. MICHAEL S. . . '97 . Brooklyn, N. Y.
LOUGHLIN, JOHN S. . . . '07 . New York City
LOUGHRAN, WILLIAM H., M.A. . '82 . New York City
LOUGHRAN, REV. THOMAS J., M.A. '83 . Woonsocket, R. I.
LOUGHRAN, THOMAS V. . . '95 . Philadelphia, Pa.
LOWNEY, REV. DENIS M., M.A. . '84 . Pawtucket, R. I.
LYNCH, REV. THOMAS F., M.A. . '66 . New York City
LYNCH, JOHN E. . . . . '82 . Haverstraw, N. Y.
LYNCH, JAMES C. . . . '94 . Ogdensburg, N. Y.
LYNCH, HENRY J. . . . . '00 . New York City
LYNCH, FRANCIS J. . . . '01 . New York City
LYNCH, JOSEPH D. . . . '05 . New York City
LYONS, FRANCIS J. . . . '83 . Brooklyn, N. Y.
*LYONS, MICHAEL J. . . . '00 . Fall River, Mass.
LYONS, REV. JUSTIN J. . . '00 . New York City
McAVOY, FRANCIS S. . . . '81 . New York City
McAVOY THOMAS F. . . . '96 . New York City
McAVOY, JOHN V. . . . '97 . New York City

McBRIDE, JOHN J. . . . '01 . New York City
*McCABE, REV. PATRICK H., M.A. '75 . Haverstraw, N. Y.
McCABE, JAMES J. . . . '82 . Staten Island, N. Y.
McCABE, EDWARD M., M.A., M.D. '84 . New Haven, Conn.
McCABE, REV. MICHAEL J. . '89 . Edgewood, R. I.
McCAFFERTY, JOHN A., M.D. . '95 . New York City
*McCARTHY, REV. FRANCIS P. '83 . Lewiston, Pa.
McCARTHY, REV. DANIEL J. . '90 . Sheepshead Bay, N. Y.
McCARTHY, TIMOTHY A. . '95 . New York City
McCARTHY, THOMAS D. . . '04 . New York City
McCLANCY, VERY REV. J. P., M.A., LL.D.
'66 . Middletown, N. Y.
McCLOSKEY, M. JOSEPH . . '95 . New York City
McCLURE, DAVID B., M.A. Causa honoris
'89 . New York City
McCLUSKEY, REV. THOMAS J., S.J., M.A.
'74 . New York City
McCOOBERY, JOSEPH F., M.A. . '80 . Jersey City, N. J
McCORRY, REV. PATRICK J., C.S.P., M.A.
'94 . Chicago, Ill.
McCUSKER, JOHN J., M.S., M.D. . '86 . Providence, R. I.
MACDONA, HENRY A., M.A. Causa honoris
'79 . New York City
*McDONALD, REV. JOSEPH V., M.A.
'87 . New York City
McDONALD, JOSEPH R. . . '97 . New York City
McDONNELL, JAMES S. . . '96 . Buffalo, N. Y.
McDONOUGH, CHARLES J. . '92 . Buffalo, N. Y.
McDOWELL, JOHN E. . . . '98 . Syracuse, N. Y.
McEVOY, JOSEPH P. . . . '03 . New York City
McFADDEN, GEORGE I. . . '72 . Brooklyn, N. Y.
McGARE, REV. THOMAS F., M.A. '74 . Haverstraw, N. Y.
McGINNIS, EUGENE F. . . '96 . New York City
McGOLDRICK, MICHAEL A., M.A. Causa honoris
'80 . Brooklyn, N. Y.
McGOLDRICK, THOMAS A., M.A., M.D.
'92 . Brooklyn, N. Y.
McGOLDRICK, EDWARD V., M.D. '98 . Brooklyn, N. Y.
McGOLDRICK, PETER J. . . '98 . Brooklyn, N. Y.
McGOLDRICK, LAWRENCE J. . '03 . Brooklyn, N. Y.
McGOLRICK, REV. EDWARD J., M.A.
'77 . Brooklyn, N. Y.
*McGOVERN, TERENCE A. . . '81 . New York City
McGOVERN, REV. PETER P. . '90 . Valley Stream, N. Y.

McGOVERN, MATTHEW . . '97 . New York City
*McGOWAN, MICHAEL M., M.A. . '69 . New York City
McGRATH, REV. THOMAS S. . '99 . New York City
McGRATH, REV. JOSEPH A. . '99 . Trenton, N. J.
McGRAW, REV. JAMES P. . '97 . Syracuse, N. Y.
*McGUINNESS, MICHAEL C., M.A. '76 . Syracuse, N. Y.
McKENNA, EDWARD F. . . '83 . Albany, N. Y.
McKENNA, JOHN B., M.A., M.D. '84 . East Providence, R. I.
McKENNA, WM. J. . . . '85 . Far Rockaway, N. Y.
McKENNA, REV. JOSEPH D. . '98 . Flushing, N. Y.
*McKEON, JOSEPH I., M.A. . '82 . New York City
McLARNON, IRVING J., M.A. . '01 . New York City
McLAUGHLIN, HUGH . . . '75 . Westchester, N. Y.
McLAUGHLIN, REV. PATRICK D. '94 . Newburgh, N. Y.
McLAUGHLIN, REV. THOS. J. . '00 . New York City
McLAUGHLIN, CHAS. B., M.A. . '04 . New York City
*McLEAN, HENRY C., M.A., M.D. '69 . Brooklyn, N. Y.
*McMAHON, DENIS, M.A. Causa honoris '67 . New York City
McMAHON, REV. DENIS J., A.M. LL.D. '76 . New York City
McMAHON, JOHN B., M.A., M.D. '73 . New York City
McMAHON, REV. JOSEPH H., M.A. '80 . New York City
*McMANUS, FRANCIS J. . . '81 . Mount Reed, N. Y.
McMANUS, WM. T., M.A., M.D. Causa honoris '93 . New York City
McMANUS, PATRICK A., M.A. . '78 . New York City
McMORROW, J. WALTER, C.E. . '01 . New York City
McMORROW, THOMAS J. . . '05 . New York City
McMULLIN, REV. CHARLES . '75 . New York City
McMULLEN, JOHN R. . . . '86 . New York City
McMURRAY, REV. FRANCIS J., M.A. '92 . Rockaway Park, N. Y.
McNALLY, SIMON T., C.E. . . '97 . New York City
McNAMARA, REV. JAMES F. . '89 . New York City
McNAMARA, SYLVESTER J., M.A., M.D. '89 . Brooklyn, N. Y.
McNAMARA, REV. JAMES J. . '93 . New York City
McNAMARA, CHARLES A., M.D. '95 . New York City
McNAMARA, SYLVESTER J., M.A. '02 . Brooklyn, N. Y.
McNAMARA, EDWARD J., M.A. . '04 . Brooklyn, N. Y.
McNAMARA, THOMAS F. . . '05 . Harrison, N. Y.
McNEELY, JAMES A. . . . '90 . Brooklyn, N. Y.
*MacOSCAR, THOMAS, M.A., M.D. '68 Causa honoris

QUINN, DENIS J., M.A. . . . '86 . New York City
*QUINN, REV. WILLIAM A., M.A. '87 . New York City
QUINN, PETER J. . . . . '87 . Pawtucket, R. I.
QUINN, REV. DANIEL A. . . '91 . New York City
QUINN, WILLIAM V., M.D. . '97 . Utica, N. Y.
QUINN, REV. DAVID I. . . . '99 . Providence, R. I.
RADFORD, HENRY V., M.S., C.E. '01 . New York City
RAFFERTY, PETER P., M.D. . '94 . Red Bank, N. J.
REGAN, PETER A. . . . . '05 . Yonkers, N. Y.
*REILLY, CHARLES B. . . . '89 . Providence, R. I.
REILLY, JOHN, M.A. Causa honoris
'93 . New York City
RENAHAN, EDWARD J. . . '86 . Yonkers, N. Y.
RENGEL, REV. EDWARD J. . . '88 . Ellicottville, N. Y.
RICHARDSON, HOWARD W. . '06 . Shroon Lake, N. Y.
*RIGNEY, REV. JAMES C., M.A. '76 . New York City
RIORDAN, DANIEL J. . . . '90 . New York City
RIORDAN, JAMES J. . . . '02 . New York City
*ROBINSON, CHARLES T., M.D. . '92 . New York City
ROCHE, WM. J., M.A. Causa honoris
'76 . Troy, N. Y.
ROCHE, NICHOLAS J. . . . '84 . New York City
ROCHE, REV. ANDREW T. . . '93 . New York City
ROCHE, DAVID P. . . . . '98 . New York City
ROCHE, WILLIAM J. . . . '99 . New York City
ROCHE, EDWARD F., M.A. . . '01 . New York City
*RODGERS, DOMINIC . . . '83 . Philadelphia, Pa.
RONAN, JOSEPH F. . . . . '86 . New York City
RONAYNE, REV. PATRICK T. . '85 . Staten Island, N. Y.
RONAYNE, JOHN A., M.D. . . '93 . Astoria, N. Y.
ROWAN, JOHN P., M.D. . . '95 . Brooklyn, N. Y.
*RUHL, ANTHONY G. . . . '95 . New York City
RYBACK, VICTOR E. . . . '94 . New York City
RYAN, MOST REV. P. J., LL.D. Causa honoris
'66 . Philadelphia, Pa.
RYAN, JOHN H., M.A. . . . '86 . New York City
RYAN, WILLIAM A. . . . '03 . Utica, N. Y.
SAIZAN, JOSEPH P., M.A., M.D. '86 . Opelousas, La.
SALTER, REV. JOHN B., M.A . '69 . Spring Valley, N. Y.
SANDER, REV. GEORGE D., M.A. '84 . Brooklyn, N. Y.
SAPHORE, EDWARD E. . . '03 . New York City
SCHLEUTER, FREDERICK P. . '02 . New York City
SEYMOUR, FIELDING A., M.S., C.E.
'94 . New York City

*SHALLEW, WILLIAM J. . . . '93 . Yonkers, N. Y.
*SHANDLEY, THOMAS B. . . '83 . New York City
*SHANDLEY, EDWARD F. . . '88 . New York City
SHAW, JAMES J. . . . . '83 . White Plains, N. Y.
*SHEA, DENIS L., M.A., M.D. . '87 . New York City
SHEA, JOHN J., M.D. . . . '93 . New York City
SHEA, MICHAEL F. . . . '98 . Manchester, N. H.
SHEEHAN, WILLIAM J. M.D. . '92 . New Haven, Conn.
SHEEHAN, ROBERT F., M.S., M.D. Causa honoris
'06 . Buffalo, N. Y.
SHEIL, PETER A. . . . . '96 . Williamsbridge, N. Y.
SHEIL, JAMES J . . . . . '97 . New York City
SHERIDAN, FRANCIS J., M.A. . '75 . Kingsbridge, N. Y.
*SHERIDAN, REV. PATRICK F., M.A. Causa honoris
'81 . Long Island City, N. Y.
SHERIDAN, PETER P. . . . '03 . New York City
SIMS, ALFRED F., M.S. . . . '02 . Albany, N. Y.
SINNOTT, PHILIP J., M.A. . . '89 . New York City
SINNOTT, REV. EDWARD M. . '01 . New Rochelle, N. Y.
SKELLY, LAWRENCE P., M.D. . '88 . Susquehanna, Pa.
SLATTERY, REV. JOHN T., M.A. '86 . Schenectady, N. Y.
SLEVIN, WILLIAM E. . . . '01 . New York City
*SMITH, JOHN N. . . . . '75 . New York City
SMITH, JAMES B. F., M.A. . . '77 . New York City
SMITH, J. SHERRY, M.A. . . '78 . Catskill, N. Y.
*SMITH, THOMAS W., M.A. . . '82 . New York City
*SMITH, JOHN R., M.A. . . '79 . New York City
SMITH, GEORGE B. . . . '84 . New York City
*SMITH, REV. DENIS E. . . '85 . Cohoes, N. Y.
SOUTHERN, WILFRED G. . . '00 . New York City
STACK, JAMES F. . . . . '97 . Brooklyn, N. Y.
STAPLETON, LUKE D., M.A. Causa honoris
'89 . Brooklyn, N. Y.
*STAUD, REV. JOHN E. . . . '79 . New York City
STEERS, THOMAS H., M.A., M.D. '76 . New York City
STEHLE, FELIX C., C.E. . . '92 . New York City
STEPATH, CHARLES U., M.S., C.E. '98 . New York City
STERNS, WILLIAM S. . . . '95 . New York City
STERNS, EDWARD P. . . . . '97 . New York City
STOKES, JOHN C. . . . . '98 . New York City
STRENSKI, REV. EMIL F. . . '04 . Jamaica, L. I.
SUAREZ, PATRICK A., C.E. . . '04 . Havana, Cuba
*SULLIVAN, DANIEL F. . . '76 . New York City
SULLIVAN, REV. WILLIAM F. . '85 . Sandwich, Mass.

SULLIVAN, REV. JOHN F.	'86	PROVIDENCE, R. I.
SULLIVAN, JOSEPH F.	'00	BROOKLYN, N. Y.
SULLIVAN, JEREMIAH F., M.A.	'01	BROOKLYN, N. Y.
SULLIVAN, R. P., M.A., M.D.	'03	BROOKLYN, N. Y.
TALTY, FRANCIS E.	'01	BUTTONWOOD, R. I.
*TAYLOR, PHILIP R., M.A.	'71	ST. LOUIS, Mo.
*THEBAN, WILLIAM H., M.D.	'91	NEW YORK CITY
THORNTON, REV. THOMAS A.	'84	NEW YORK CITY
THORNTON, MICHAEL J., M.D.	'97	NEW YORK CITY
TIERNEY, JOSEPH L.	'98	NEW YORK CITY
TIMON, JAMES E.	'04	BROOKLYN, N. Y.
*TOBIN, MICHAEL F.	'92	NEW YORK CITY
*TONE, FREDERICK A.	'82	NEW YORK CITY
TORPEY, REV. WALTER J.	'83	WHITEHALL, N. Y.
TULLY, REV. JOHN F., M.A.	'83	CRANSTON, R. I.
VALLELY, WILLIAM P., C.E.	'03	NEW YORK CITY
VICTORY, VINCENT	'89	NEW YORK CITY
VILLANYI, EMIL J.	'92	NEW YORK CITY
*WALSH, FRANCIS M.	'75	NEW YORK CITY
WALSH, JAMES J., M.A.	'78	NEW YORK CITY
*WALSH, THOMAS C.	'79	NEW YORK CITY
*WALSH, REV. MICHAEL	'89	NEW YORK CITY
WALSH, PETER D.	'89	BOSTON, MASS.
*WALSH, JOHN J., M.A.	'89	BOSTON, MASS.
WALSH, MICHAEL P., Ph.D.	'90	NEW YORK CITY
WALSH, THOMAS F.	'94	NEW YORK CITY
WALSH, JAMES J., M.D.	'96	WESTCHESTER, N. Y.
WALSH, REV. PATRICK E.	'99	MANCHESTER, N. H.
WALSH, ROBERT J.	'01	NEW YORK CITY
WALSH, REV. MICHAEL A.	'05	WESTCHESTER, N. Y.
WARD, WILLIAM J.	'96	BROOKLYN, N. Y.
*WARD, JOHN H., M.S.	'97	ALBANY, N. Y.
WATERS, REV. JOHN A., M.A.	'77	PORTCHESTER, N. Y.
WEINBERG, EDWARD F.	'06	NEW YORK CITY
WELCH, JOSEPH T.	'87	WASHINGTON, D. C.
*WENZEL, REV. PAUL A., M.A. Causa honoris	'82	SOUTH ORANGE, N. J.
WERNER, JOHN P.	'97	NEW YORK CITY
WHALEN, JOHN, M.A., LL.D. Causa honoris	'98	NEW YORK CITY
*WHELAN, WILLIAM A.	'83	WATERVLIET, N. Y.
WHELAN, WILLIAM J.	'94	NEW YORK CITY
WHITE, PETER P.	'79	GUTTENBERG, N. J.

WHITMORE, BENJAMIN, M.D., LL.D. Causa honoris '98 . New York City
WHITNEY, THOMAS B., C.E. . '97 . New York City
WILDE, WILLIAM E. . . . '87 . New York City
*WILFORD, THOMAS F., M.A. Causa honoris '82 . New York City
WILKES, ROBERT W., M.A. . . '02 . Yonkers, N. Y.
WILLIAMS, ROSWELL D. . . '96 . New York City
WOODMAN, REV. CLARENCE E., C.S.P. Causa honoris '83 . New York City
YOUNG, JOSEPH A., . . . '93 . Brooklyn, N. Y.
YORK, REV. JOHN B., M.A. . '84 . Huntington, L. I.

McPARLAN, THOMAS F., M.A., M.D.
'88 . New York City
McPARLAN, EDWARD C. . . '93 . New York City
McPEAK, JAMES F., C.E. . . '94 . New York City
McPHILLIPS, MATTHEW F. . '04 . New York City
McQUADE, JOHN J. S. . . . '98 . New York City
McSHANE, EDWARD A. . . '03 . New York City
*McSORLEY, PETER A. . . '70 . Brooklyn, N. Y.
McSORLEY, PATRICK F. . . '00 . New York City
MACK, SAMUEL J. . . . '84 . New York City
MADDEN, HENRY A. . . . '89 . New York City
MADDEN, FRANCIS M. . . '90 . New York City
MADDEN, REV. THOMAS N. . '93 . New York City
MAGEE, JAMES P. . . . '02 . New York City
*MAGINN, FRANCIS E. . . '88 . New York City
MAGRATH, PHILIP J. . . . '00 . New York City
MAGUIRE, RT. REV. MGR. FRANCIS J., M.A., LL.D. . . . Causa honoris
'79 . Albany, N. Y.
MAHER, AUGUSTINE F. . . '90 . New Haven, Conn.
MAHER, JOHN F. . . . . '96 . Syracuse, N. Y.
MAHER, STEPHEN J., M.A., M.D. Causa honoris
'92 . New Haven, Conn.
MAHON, REV. JOHN J. . . '94 . Brooklyn, N. Y.
MAHONEY, REV. PATRICK J. . '84 . Goshen, N. Y.
MAHONEY, REV. DANIEL P., M.A.
'83 . Johnsonville, N. Y.
MAHONEY, DANIEL F. . . '05 . New York City
MALANEY, THOMAS P. . . '72 . New York City
*MANLEY, THOMAS H., M.A., M.D. Causa honoris
'89 . New York City
MANNING, JOHN T. . . . '93 . New York City
MANNING, HENRY E. . . . '94 . Worcester, Mass.
*MARA, REV. MICHAEL J. . . '91 . Utica, N. Y.
MARREN, JAMES P. . . . '87 . New York City
MARSHALL, REV. GEORGE F. . '85 . Milford, N. H.
MARTIN, EDWARD A., M.A. . '90 . North Tarrytown, N. Y.
MEAHER, DENIS A., M.A. . . '67 . Portland, Me.
MEEGAN, REV. EDWARD J. . '92 . Philmont, N. Y.
MEEHAN, REV. WM. F., M.A. . '88 . New York City
*MERRIGAN, BRENDAN V. . '92 . Kingsbridge, N. Y.
MERTENS, JOSEPH C., F.S.C., M.S. '93 . Troy, N. Y.
*MILAY, MICHAEL J. . . . '97 . Irvington, N. Y.
MILLER, REV. HENRY A. . . '05 . Averill Park, N. Y.

*MITCHELL, REV. JAMES H., M.A., LL.D.	'74	.	Brooklyn, N. Y.
MITCHELL, ARTHUR J., M.D.	'92	.	New York City
MITTY, REV. JOHN J.	'01	.	Rome, Italy
MIVILLE, CHARLES B.	'04	.	New York City
MOLONY, FRANCIS T.	'05	.	New York City
MONAHAN, DAVID H., M.A.	'83	.	Southington, Conn.
MONTAGUE, WM. A., M.A.	'95	.	New York City
MOONEY, DANIEL J.	'03	.	New York City
MOONEY, REV. MICHAEL F.	'87	.	Galway, N. Y.
MOORE, REV. FRANCIS P., LL.D.	'80	.	Wakefield, N. Y.
MOORE, SAMUEL B., M.A., M.D.	'97	.	New York City
MORRIS, REV. JOHN J., M.A.	'83	.	Port Jervis, N. Y.
MORRIS, EDWARD J., M.D.	'89	.	Brooklyn, N. Y.
MORRIS, JOHN T. Causa honoris	'91	.	Baltimore, Md.
MORRISON, RICHARD J., M.A.	'69	.	New York City
MULCAHY, CORNELIUS J.	'98	.	New York City
MULLANY, REV. JOHN F., M.A. Causa honoris	'76	.	Syracuse, N. Y.
MULLINS, DENIS P.	'89	.	New York City
MUNDELEIN, RT. REV. MGR. G. W.	'89	.	Brooklyn, N. Y.
*MURPHY, REV. MICHAEL J., M.A.	'66	.	Rockaway, N. Y.
*MURPHY, FELIX T., M.A.	'74	.	New York City
MURPHY, JOSEPH P., M.D.	'91	.	Brooklyn, N. Y.
MURPHY, JOHN A., M.D.	'94	.	New Haven, Conn.
MURPHY, REV. EDMUND J.	'95	.	New York City
MURPHY, REV. RICHARD D.	'98	.	Chicopee, Mass.
MURPHY, JAMES E., M.A.	'03	.	Dover, N. H.
MURPHY, JOHN J., C.E.	'02	.	Yonkers, N. Y.
MURRAY, REV. MICHAEL J., M.A.	'78	.	Riverdale, N. Y.
MURRAY, REV. LAWRENCE E., M.A.	'83	.	Lake Mahopac, N. Y
MURRAY, HUGH A.	'87	.	New York City
MURRAY, PATRICK J., M.D.	'92	.	Brooklyn, N. Y.
MURRAY, REV. JOSEPH G.	'96	.	New York City
MURRAY, RICHARD B.	'04	.	Kensington, N. Y.
MUSGRAVE, C. J., M.A., M.D.	'84	.	New York City
NAGLE, JOHN J.	'98	.	New York City
NAUGHTON, THOMAS S.	'00	.	Oceanic, N. J.
NEVILLE, REV. ERNEST P.	'03	.	Catskill, N. Y.
NEVIN, JOHN J., M.A., M.D.	'82	.	Jersey City, N. J.

NEWMAN, GEORGE B. . . '98 . New York City
*NICHOLSON, JAMES F., M.A. . '77 . Troy, N. Y.
*NOLAN, JAMES M. . . . '92 . Paterson, N. J.
NOLAN, ROBERT C. . . . '02 . New York City
*NOONAN, REV. JOHN A. . . '71 . New York City
NORRIS, REV. JOSEPH I. . . '97 . New York City
NUGENT, JOSEPH A. . . . '84 . Bensonhurst, N. Y.
OAKLEY, MARTIN A. . . . '02 . New York City
O'BRIEN MICHAEL C., M.A., M.D. '78 . New York City
O'BRIEN, EDMOND A., M.A. . '79 . Troy, N. Y.
O'BRIEN, REV. THOMAS J., M.A. '88 . Brooklyn, N. Y.
O'BRIEN, REV. JOHN J. . . '92 . New York City
O'BRIEN, JAMES W., LL.D. Causa honoris
'92 . New York City
O'BRIEN, JOHN E. . . . . '95 . New York City
O'BRIEN, JOHN F. . . . . '07 . Troy, N. Y.
O'CALLAGHAN, EDWARD A. . '95 . New York City
O'CONNELL, PATRICK F. . . '84 . New York City
O'CONNELL, RT. REV. D. J., LL.D. Causa honoris
'04 . Washington, D. C.
O'CONNELL, TIMOTHY I. . . '06 . New York City
O'CONNOR, REV. JAS. P. . . '79 . Albany, N. Y.
*O'CONNOR, REV. EDWARD F., M.A. Causa honoris
'81 . Clayville, N. Y.
O'CONNOR, CHARLES V., F.S.C., M.A.
'81 . New York City
O'CONNOR, THOMAS C. . . '85 . Buffalo, N. Y.
O'CONNOR, JAMES P. . . . '94 . New York City
O'CONNOR, CHARLES G., M.D. '95 . Brooklyn, N. Y.
*O'CONNOR, ALOYSIUS G. . . '99 . New York City
*O'CONNOR, GILBERT A. . . '03 . New York City
O'DONNELL, JOHN A. . . . '07 . New York City
O'DWYER, PAUL V. . . . '05 . New York City
O'GORMAN, REV. DENIS F. . . '90 . Gethsemane, Ky.
O'GRADY, JOHN J. . . . . '84 . Athens, N. Y.
O'HAGAN, ROMUALD R. . . '05 . Astoria, L. I.
O'HARE, FRANCIS H. . . . '07 . New York City
O'KEEFE, GEORGE J. . . . '92 . Brooklyn, N. Y.
O'KEEFE, WILLIAM J. . . . '96 . Plainfield, N. J.
*O'LEARY, CORNELIUS, M.A., M.D., Causa honoris
'66 . New York City
*O'LEARY, THOMAS J., M.A. . '84 . New York City
O'LEARY, ARTHUR J., M.A., M.D. '87 . New York City
O'LEARY, CHARLES J., M.A. . '89 . New York City

O'LEARY, ARTHUR T. . . . '04 . New York City
O'LEARY, DANIEL I. . . . '07 . New York City
O'MARA, THOMAS J., M.A., M.D. '92 . New York City
O'MEARA, REV. PATRICK J., M.A. '76 . Piermont Co., N. Y.
*O'NEILL, REV. WILLIAM A. . . New York City
O'NEILL, EDWIN D., M.A., M.D. '68 . New York City
O'NEILL, FRANCIS J., M.A. . . '75 . Aurora, Ill.
O'NEILL, REV. DENIS P., M.A. . '78 . Westchester, N. Y.
*O'NEILL, REV. FRANCIS X. . '94 . Manchester, N. H.
O'REILLY, REV. THOMAS J., M.A. '77 . Columbus, Ohio
O'REILLY, GEORGE M. . . . '98 . New York City
O'REILLY, JAMES J. . . . '00 . Pawtucket, R. I.
O'RORKE, JOHN J., M.D. . . '75 . New York City
O'ROURKE, ANDREW A. . . '84 . New York City
O'ROURKE, JOHN A., M.A. . . '88 . New York City
O'RYAN, WILLIAM P., M.A. . '99 . Westchester, N. Y.
*O'SHAUGHNESSY, REV. JOHN E. '83 . New York City
O'SHEA, WILLIAM J., M.S. Causa honoris
'89 . New York City
*O'SULLIVAN, PATRICK S., C.E. '02 . New Briton, Conn.
PAINE, WILLIS S., LL.D. Causa honoris
'85 . New York City
PECH, JAMES M., Ph.D. Causa honoris
'92 . New York City
*PELTIER, PAUL A., M.A. Causa honoris
'67 . St. Louis, Mo.
PENNEFATHER, J. RAYMOND . '04 . New York City
PENNY, REV. WILLIAM L., LL.D. Causa honoris
'00 . New York City
PETRIE, ALBERT W. . . . '90 . New York City
PFOHL, EDWARD M., M.A., M.D. '85 . Buffalo, N. Y.
PHELAN, THOMAS F. . . . '88 . Troy, N. Y.
PHELAN, REV. THOMAS P., M.A. '91 . New York City
PHELAN, JOHN J. . . . . '95 . New York City
PHELAN, JAMES T., C.E. . . '97 . New York City
PODVIN, EDWARD C., M.A., M.D. '95 . New York City
POMMERER, ROBERT W., C.E. . '01 . New York City
PRENDERGAST, REV. E. R., M.A. '79 . Norwich, N. Y.
*PRIAL, JOHN J. . . . . '90 . New York City
PURCELL, REV. WALTER A., M.A. '78 . Summit, N. J.
*PYNE, PATRICK H., M.A., M.D. Causa honoris
'86 . Yonkers, N. Y.
QUIGLEY, JOHN J., M.A., M.D. . '81 . New York City
*QUINN, PIERCE J., M.A. . . '79 . New York City

The High School

THE HIGH SCHOOL.

The aim of the High School is to prepare for entrance to the College. The studies conform to the "Syllabus for Secondary Schools" of the New York State Education Department.

The requirements for admission are the preliminary studies prescribed by the Department. The most favorable time for entrance is at the beginning of the scholastic year. The regular examinations for admission take place on the second Monday in September. Students will, however, be received at any time during the year, but not for a period shorter than five months.

The classes are frequently examined, and students are not allowed to pass from one subject to another until they have given evidence of adequate knowledge of the subject. A student who shows by the results of the examinations that he is unable to keep up with his class will be placed in a lower grade.

The Inspector examines weekly the record of every pupil and comments upon it before the Professors and students of the class.

Summarized reports of the examinations are forwarded to the parents at the end of each term.

Since each report shows the exact standing of the student, it should be carefully examined by his parent or guardian.

Percentages are estimated as follows: From 90 to 100, excellent; from 80 to 90, very good; from 70 to 80, satisfactory; under 70, unsatisfactory.

Promotions are based on the joint results of the several examinations and the daily marks. No student will be allowed to pass from one class to another unless he has given satisfactory proof of his ability to follow the higher class. Promotions are generally made at the end of the scholastic year, but a student may be promoted at other times, provided his work shows fitness therefor.

Students who fail in the final examination may present themselves for further examination at the opening of the next term.

At least three hours a day should be given to the preparation of class work.

The active co-operation of parents with the Faculty is essential to the progress of the student. Parents are therefore requested to insist upon regular attendance and careful preparation of class work.

Students are expected to act at all times as gentlemen. No one will be retained who is insubordinate or whose society may prove undesirable.

Punctuality at all sessions and recitations is required.

A written excuse from parents or guardian is required in all cases of absence. This excuse will not be accepted in lieu of omitted class work.

Wednesday and Saturday afternoons are the regular weekly half-holidays.

Students who live in the College may not leave the grounds without authorization.

COURSE OF STUDIES.

FIRST YEAR.

ENGLISH. *Grammar* (3)—
C. B. *Principles of English Grammar.*
Composition (1)—
Literature (1)—
Lowell, *The Vision of Sir Launfaul.*
Scott, *Ivanhoe.*
Irving, *Sketch Book.*
Browning, *The Pied Piper and Short Poems.*

HISTORY. *Ancient* (5)—Wolfson, *Essentials in Ancient History.*

MATHEMATICS. *Algebra* (4)—First XVIII. chapters.
Wentworth, *Elementary Algebra.*
Arithmetic (2)—Review of pre-Academic Course.
Christian Brothers, *Complete Arithmetic.*

FRENCH. *Grammar* (5)—
François, *Beginner's French.*
Guerber, *Contes et Legendes*, Part I.

DRAWING. *Linear* (1)—Book I. Begun.
Christian Brothers, *Elementary Course.*

ELOCUTION. (1)

CHRISTIAN DOCTRINE (2)—First ten lessons.
Kinkead, *Catechism*, No. 3.

SECOND YEAR.

First Term.

English. *Composition* (2)—Elements.
Gardiner, Kittredge, and Arnold, *The Mother Tongue.*
Literature (2).
The Sir Roger de Coverley Papers in the "Spectator."
Shakespeare, *As You Like It.*

History. *Medieval and Modern European* (5).
Harding, *Essentials in Medieval and Modern European History.*

Mathematics.
Geometry (3)—Books I. and II.
Wentworth, *Plane Geometry.*
Algebra (2)—Chapters XVIII. to XXII.
Wentworth, *Elementary Algebra.*

French. *Grammar and Literature* (4).
François, *Beginner's French;* Daudet, *Trois Contes choisis;* Labiche et Martin, *La Poudre aux Yeux;* Mairet, *La Tâche du Petit Pierre.*

German. *Grammar* and *Literature* (4).
Spanhooft, *Lehrbuch der deutschen Sprache.*
Guerber, *Märchen und Erzählungen*, Part I.

Drawing. *Linear* (1). Second part of Book I.
Christian Brothers, *Elementary Course.*

Elocution. (1)
Christian Doctrine (2)—Lessons X. to XXI.
Kinkead, *Catechism*, No. 3.

Second Term.

English. *Composition* (2)—Elements.
Gardiner, Kittredge, and Arnold, *The Mother Tongue.*
Literature (2)—George Eliot, *Silas Marner.*
Goldsmith, *The Deserted Village.*

Mathematics.
Geometry (5)—Books III., IV., and V.
Wentworth, *Plane Geometry.*

History. (5)
French. (4)
German. (4)
Drawing. (1)
Elocution. (1)
Christian Doctrine. (2)
} See First Term.

THIRD YEAR.

First Term.

English. *Rhetoric* (2)—The Forms of Discourse.
Gardiner, Kittredge, and Arnold, *The Mother Tongue.*
Literature (2)—Ruskin, *Sesame and Lilies;* Shakespeare, *Julius Cæsar.*

History. *English* (4).
Montgomery, *Leading Facts of English History.*

Mathematics.
Geometry (4)—Solid.
Wentworth, *Plane and Solid Geometry.*

FRENCH. *Literature* (4)—Halévy, *L'Abbé Constantin;* Racine, *Esther;* Enault, *Le Chien du Capitaine;* Molière, *Le Bourgeois Gentilhomme.*

GERMAN. *Literature* (4)—Anderson, *Bilderbuch ohne Bilder;* Zschokke, *Der Zerbrochene Krug;* Hillern, *Hoher als die Kirche;* Benedix, *Der Prozesz.*
Oral and written exercises based on the text read.

DRAWING. *Linear* (1)—Book II. Begun.
Christian Brothers, *Elementary Course.*

PHYSICS *Lectures and Recitations* (3).
Laboratory (1). (Double Period.)
Millikan and Gale, *First Course in Physics.*

ELOCUTION (1).

CHRISTIAN DOCTRINE (2)—Lessons XXI. to XXX.
Kinkead, *Catechism*, No. 3.

SECOND TERM.

ENGLISH. *Composition and Rhetoric* (2)—The forms of Discourse.
Gardiner, Kittredge, and Arnold, *The Mother Tongue.*
Literature (2)—Review of books read in preceding term.

MATHEMATICS. *Intermediate Algebra* (4).

CHRISTIAN DOCTRINE.	(2)	See First Term.
ELOCUTION.	(1)	
PHYSICS.	(4)	
DRAWING.	(1)	
GERMAN.	(4)	
FRENCH.	(4)	
HISTORY.	(4)	

FOURTH YEAR.

First Term.

English. *Literature* (2)—Burke, *Speech on Conciliation with America;* Webster, *First Bunker Hill Oration;* Milton, Minor Poems.

Composition and Rhetoric (2)—Paragraphs, Sentences, and Words. Gardiner, Kittredge, and Arnold, *The Mother Tongue.*

History. *American and Civil Government* (4).
Montgomery, *Students' American History.*

Mathematics.
Plane and Spherical Trigonometry (4).
Wentworth, *Plane and Spherical Trigonometry.*

French. *Composition and Literature* (4)—François, *Introductory Prose Composition;* Racine, *Athalie;* Bernardin de Saint Pierre, *Paul et Virginie;* Molière, *L'Avare;* Muller, *Le Grandes Découvertes Modernes;* Corneille, *Le Cid.*

German. *Literature* (4)—Riehl, *Der Fluch der Schonheit;* Freytag, *Die Journalisten;* Schiller, *Wilhelm Tell;* Selections from Hatfield's *German Lyrics and Ballads.*

Drawing. *Linear* (1)—Book II. (Finished.)
Christian Brothers, *Elementary Course.*

Elocution (1).

Chemistry.
Lectures and Recitations (3).
Laboratory (1). (Double Period.)
Newell, *Descriptive Chemistry.*

Christian Doctrine (2)—Lessons XXX. to XXXVII.
Kinkead, *Catechism*, No. 3.

Second Term.

English. *Literature* (2)—Carlyle, *Essay on Burns;* Shakespeare, *Macbeth.*

Composition and Rhetoric (2)—Paragraphs, Sentences, and Words.

Gardiner, Kittredge, and Arnold, *The Mother Tongue.*

Mathematics.

Advanced Algebra (4).

Hawkes, *Advanced Algebra.*

History.	(4)	See First Term.
French.	(4)	
German.	(4)	
Drawing.	(1)	
Chemistry.	(4)	
Elocution.	(1)	
Christian Doctrine.	(2)	

The School of Commerce

THE SCHOOL OF COMMERCE.

Students who desire to prepare for mercantile life, will find every facility in the Commercial Department. This department does not limit itself to purely business branches. Subjects of general culture are also included.

English composition and letter-writing receive special attention. The student is required to treat prescribed subjects in a manner that will enable him to write with ease and elegance. Questions relating to political economy and commercial law are discussed in the class-room in order to give the student correct ideas on the vital questions of daily life. Weekly lessons are given in the art of public speaking, in order that the student may acquire an easy and graceful delivery.

The mathematics taught include a complete course of commercial arithmetic and an elementary course of algebra and geometry.

The students receive a thorough course in standard business methods and in the science of accounts.

Shorthand and typewriting are essential to the course, and ample opportunity is afforded for practice in these branches of office work.

The rules governing the School of Commerce are similar to those of the High School.

Students who complete the course receive a Certificate as a guarantee of their fitness for mercantile employment.

Prizes and Medals.

The Brother Charles Memorial Medal, founded by the Commercial Alumni Society, is awarded to the student who has the highest record for general proficiency.

The Kean Medal for religious instruction, donated by the Rev. John J. Kean, '66, is open to all students of the Commercial Department.

COURSE OF STUDIES.

FIRST YEAR.

Christian Doctrine.	(2)	See Course of Studies High School, First Year.
Elocution.	(1)	
Drawing.	(1)	
Mathematics.	(6)	
History.	(5)	
English.	(5)	

Bookkeeping (3)—Business Transactions. Drills in preparing business papers. Use of Cash Book, Sales Book, Journal, Ledger. Statements.

Penmanship (2)—To acquire a plain legible business hand.

Spanish (3)—Grammar.

SECOND YEAR.

First Term.

English.	(4)	See Course of Studies High School, Second Year, First Term.
History.	(5)	
Drawing.	(1)	
Religion.	(2)	

SPANISH (4)—Elementary Composition.
Alarcon, *El Capitan Veneno;* Goldos, *Doña Perfecta Marianela;* Valera, *El Pájáro Verde;* Cervantes, *Don Quijôte.*

COMMERCIAL ARITHMETIC (5)—Mental exercises, use of labor-saving methods, adaptation of text-book problems to those of actual business.

STUDY OF COMMERCIAL PRODUCTS (2)—Raw materials of Commerce, manufactures, finished products, transportation, means of communication, means of trade, centers of production.

BOOKKEEPING (5)—Wholesale, Retail, jobbing, commission, manufacturing business. Drills in preceding work.

SECOND YEAR.

SECOND TERM.

ENGLISH.	(4)	See Course of Studies High School, Second Year, Second Term.
HISTORY.	(5)	
DRAWING.	(1)	
RELIGION.	(2)	

COMMERCIAL GEOGRAPHY (5)—The countries of the world; locations, boundaries, climate, rivers, chief commercial cities, productions, markets, etc.

TYPEWRITING (5).

SPANISH (5)—See First Term.

THIRD YEAR.

FIRST TERM.

ENGLISH (5)—History of English Literature. Commercial correspondence.

History (5)—American. See High School Course, Fourth Year.

Physics (4)—See High School Course, Third Year.

Bookkeeping and Business Practice (5).
Joint Stock companies, partnerships and corporations; opening and closing such accounts. Drill on preceding work.

Spanish (4)—Valdes, *José;* Calderon, *La Vida es Sueño;* Larra, *Partir á tiempo.*
Business forms and commercial correspondence.

Plane Geometry (3)—See High School Course, Third Year, First Term.

Religion (2)—Dogma. See Courses of Study, No. 129, Christian Brothers, *Manual of Christian Doctrine.*

THIRD YEAR.

Second Term.

Plane Geometry (5)—See High School Course, Second Year, Second Term.

Physics (4)—See High School Course, Second Year, Second Term.

Commercial Law (4)—Contracts, bills and notes, agency, partnership, corporations, mortgages, common carrier, etc.

Political Economy (2)—Principles of economics, production, exchange, distribution. Topics of the day.

Spanish (4)—See First Term.

Shorthand and Typewriting (5).

Religion (2)—See First Term.

FOURTH YEAR.

First Term.

English (5)—Literature, themes, and parliamentary law and practice.

History (5)—Of Commerce.

Shorthand and Typewriting (5)—Advanced work.

Chemistry (5)—See High School Course, Fourth Year.

Banking and Finance (5).

Religion (2)—Moral. See Course of Study, No. 130. Christian Brothers, *Manual of Christian Doctrine.*

FOURTH YEAR.

Second Term.

English (5)—Literature, themes and parliamentary law and practice.

Civil Government (5)—Local, state, and national; Co-ordination with history already studied.

Shorthand and Typewriting (5)—Advanced work.

Chemistry (5)—See High School Course, Fourth Year.

Accounting, Organization, and Auditing (5).

or

Advanced Commercial Arithmetic (5).

Religion (2)—See First Term.

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BANNIGAN, JOHN J.	'79	Providence, R. I.
*BANNIGAN, WILLIAM B.	'83	Providence, R. I.
BARTON, CHARLES B.	'99	Mariner's Harbor, N. Y.
BARRY, WILLIAM P.	'99	Ticonderoga, N. Y.
BATTLE, HUGH R.	'94	New York City
BECKINGHAM, DANIEL F.	'02	New York City
BERGIN, WILLIAM	'74	New York City
BEESCH, ALBERT R.	'04	Toledo, Ohio
BLANCK, WILLIAM A.	'89	New York City
BORROUGH, ROBERT D.	'96	New York City
BOYLAN, JOSEPH A.	'07	New York City
BOYLAN, TERENCE	'75	New York City
BRADLEY, HENRY J.	'83	New York City
BROWNE, HENRY P.	'90	New York City
BROPHY, MARTIN J.	'87	Grassy Point, N. Y.
BURDETT, HENRY W.	'01	Fort Lee, N. J.
BURDETT, LESTER C.	'01	Fort Lee, N. J.
BYRNES, BERNARD L.	'97	New York City
CALLAHAN, JOHN W.	'98	New York City
CALLANAN, WILLIAM H.	'05	New York City
CANALES, LOUIS G.	'06	Havana, Cuba
CARROLL, JOHN J.	'91	New York City
CHAMBERS, ELMER J.	'07	
CLARK, LUCAS A.	'07	
CLARK, JOHN L.	'85	Corning, N. Y.
CLARKE, JOHN T.	'83	Brooklyn, N. Y.
COAKLEY, FRANCIS A.	'05	Utica, N. Y.

COEN, EDWARD J.	'86	Newport, R. I.
COGHLIN, WILLIAM A.	'94	Holyoke, Mass.
CONKLE, WALTER J.	'85	Kansas City, Mo.
CONLON, WILLIAM P.	'93	Waterbury, Conn.
CONNAUGHTON, JAMES E.	'02	Ossining, N. Y.
CONRY, ELLIOT	'71	Philadelphia, Pa.
CONNELL, FRANCIS	'74	New York City
CORCORAN, WILLIAM P.	'02	Ossining, N. Y.
CORNWELL, ALBERT J.	'03	New York City
COTTER, JAMES F.	'04	Providence, R. I.
COUGHLIN, DANIEL W.	'96	New York City
*CREENANE, JAMES	'80	New York City
CROWLEY, TIMOTHY F.	'97	New York City
CUMMINGS, JOHN H.	'94	Brooklyn, N. Y.
CUMMINGS, JOHN L.	'99	Brooklyn, N. Y.
CUNNION, JAMES A.	'85	New York City
*CURRAN, ANDREW J.	'86	Brooklyn, N. Y.
DALTON, JEREMIAH J.	'90	Brooklyn, N. Y.
DALY, JOSEPH F.	'83	Brooklyn, N. Y.
DALY, JAMES W.	'73	Savannah, Ga.
DEMPSEY, EDWARD F.	'88	New York City
DEMPSEY, JOSEPH A.	'96	Brooklyn, N. Y.
DEVINE, JOSEPH A.	'93	New York City
*DIVERS, PHILIP A.	'75	New York City
DOLAN, JAMES F.	'04	New York City
DOMINGUEZ, JUAN M.	'93	Gibara, Cuba
DONAHUE, PAUL P.	'85	New York City
DONAVAN, CHARLES J.	'01	New York City
*DONNELLY, JOSEPH A.	'89	Pawtucket, R. I.
DONNELLY, JOSEPH T.	'91	College Point, N. Y.
*DONNELLY, MICHAEL A.	'95	New York City
DORFLINGER, CHARLES	'73	New York City
DOUGHERTY, WILLIAM A.	'78	New York City
DOWD, LAWRENCE F.	'04	New York City
DOYLE, WILLIAM	'76	Great Falls, Mont.
DREKA, JEROME G.	'07	De Land, Fa.
DUFF, PATRICK H.	'04	Providence, R. I.
*DUGAN, JAMES F.	'72	Staten Island, N. Y.
DUMPHY, JOHN F.	'93	Portsmouth, N. H.
DUNN, HENRY	'72	New York City
DUNN, FRANCIS W.	'88	Irvington, N. Y.
DUNN, PETER H.	'04	New York City
DUNPHY, RICHARD J.	'79	New York City
DURIO, CYRIACUS	'84	Arnaudville, La.

EGAN, DANIEL F.	'90	New York City
EILBACHER, AUGUST	'95	Elizabeth, N. J.
ELLIOT, WARREN	'74	Cincinnati, O.
ENTWISTLE, JILSON	'71	Washington, D. C.
ESCALANTE, NICHOLAS	'88	Merida, Yucatan
FAGAN, JOSEPH	'74	Brooklyn, N. Y.
FARRELLY, LAWRENCE D.	'04	New York City
FAY, JOSEPH	'76	New York City
FINNEGAN, JOHN	'77	Brooklyn, N. Y.
FINEGAN, JAMES E.	'99	Haverstraw, N. Y.
FITZGERALD, MICHAEL	'78	Troy, N. Y.
FITZPATRICK, WILLIAM J.	'99	New York City
FLANAGAN, JOSEPH B.	'98	New York City
FLYNN, JOHN	'75	New York City
FOX, PATRICK	'76	New York City
GABRIELS, PAUL J.	'99	Watervliet, N. Y.
GALLAGHER, VINCENT J.	'85	Brooklyn, N. Y.
GARRY, FRANCIS S.	'01	New York City
GARVEY, HENRY S.	'99	Adams, Mass.
GAUTIER, LOUIS P.	'92	New York City
GIFFORD, FRANCIS P.	'07	
GIRALDI, PHILIP E.	'93	New York City
GLEASON, FRANCIS J.	'07	
GLENNON, JAMES A.	'79	New York City
GOODWIN, WILLIAM J.	'96	New York City
GONZALES, MIGUEL P.	'88	La Paz, Mexico
GONZALES, PABLO M.	'89	La Paz, Mexico
GRAHAM, JOHN M.	'93	New York City
GRIFFIN, JOHN	'82	San Francisco, Cal.
HALL, ROBERT L.	'78	Jersey City, N. J.
*HAMILTON, WALTER S.	'98	New York City
HARDY, ROBERT O.	'84	Chataignier, La.
HARDY, THOMAS S.	'86	Chataignier, La.
HEATON, CHARLES A.	'96	New York City
HERNANDEZ, PEDRO A.	'05	San Juan, P. R.
HERNANDEZ, RAFEL M.	'05	Coamo Springs, P. R.
HENRY, MICHAEL F.	'97	New York City
HEROLD, JUSTIN B., M.D.	'77	New York City
HIDALGO, RAFAEL	'05	Manila, P. I.
HINES, MICHAEL A.	'04	New York City
HOEFT, FREDERICK	'76	Brooklyn, N. Y.
HOGAN, CHARLES J.	'95	New York City
HOULIHAN, JOSEPH T.	'04	New York City
HOWE, WILLIAM F.	'87	New York City

HUEBENER, EDWARD F.	'97	Hoboken, N. J.
HUGHES, JOSEPH F.	'04	New York City
*HYLAND, FRANCIS X.	'96	New York City
*JOHNSTON, BERNARD E.	'75	Yonkers, N. Y.
JUDGE, HENRY J.	'79	Albany, N. Y.
KEARNEY, ARTHUR J.	'77	New York City
KEELER, WILLIAM	'74	New York City
KELLY, JOHN J.	'80	Syracuse, N. Y.
KELLY, JAMES F.	'05	New York City
KENNELLY, WILLIAM L.	'78	New York City
KILLORAN, BERNARD	'75	New York City
KILLORAN, JAMES M.	'96	New York City
KILROY, JOHN W.	'01	Buffalo, N. Y.
KITTNER, PAUL J.	'06	Brooklyn, N. Y.
KLEIN, ADOLPH P.	'01	New York City
KREBS, CHARLES L.	'03	Norwich, Conn.
*LARKIN, WM. R., M.D.	'75	New York City
LALOR, CHARLES H.	'95	New York City
LEAVEY, JAMES B.	'88	Brooklyn, N. Y.
LEES, JOSEPH K.	'80	New York City
LEIFELS, JOHN	'76	Utica, N. Y.
LELLIS, WILLIAM J.	'95	New York City
LENIHAN, MICHAEL F.	'93	New York City
LINDENFIELD, CHARLES F.	'89	Los Angeles, Cal.
LUNSTED, WILLIAM J.	'03	Rutherford, N. J.
LYNCH, THOMAS	'80	Haverstraw, N. Y.
LYNCH, BERNARD	'75	New Jersey, N. J.
McALEER, JAMES E.	'85	Lowell, Mass.
McANDREWS, PATRICK H.	'87	Hawley, Pa.
McARTHUR, GEORGE F.	'95	New York City
McAVOY, THOMAS F.	'95	New York City
McCARTHY, ALFRED	'84	New Haven, Conn.
McCARTHY, CHARLES R.	'88	New Haven, Conn.
McCARTHY, FRANCIS E.	'89	Boston, Mass.
McCLOSKEY, MICHAEL J.	'91	New York City
*McCROHAN, MICHAEL F.	'74	Savannah, Ga.
MACDONA, HENRY C.	'71	New York City
*McDONALD, EDWARD J.	'91	New York City
McGOVERN, GEORGE W.	'01	New York City
McGOVERN, NEWTON A.	'97	New York City
McGUCKIN, JOHN H.	'88	New York City
McGUIRE, WALTER L.	'04	New Haven, Conn.
McKEON, CHAS. H.	'03	New Haven, Conn.
*McKEON, EDWARD T.	'94	New York City

McMAHON, EDWARD J.	'99	New York City
McMAHON, RODERICK J.	'99	Rochester, N. Y.
*McMANUS, JAMES P.	'71	New York City
McMANUS, JAMES	'74	New York City
McQUADE, EDWARD A.	'93	New York City
McQUADE, FRANCIS A.	'99	New York City
MADDEN, GEORGE P.	'88	Kingston, N. Y.
MAGUIRE, BERNARD J.	'91	New York City
MANGIN, THOMAS	'90	New York City
MEARA, JAMES J.	'06	New York City
MEATH, THOMAS K.	'71	Memphis, Tenn.
MEERT, FREDERICK W.	'90	New York City
MEERT, VICTOR E.	'91	New York City
MESA, ANTONIO	'74	Havana, Cuba
MILLER, CHARLES J.	'85	New York City
MILLER, GEORGE E.	'87	New York City
MOCLAIR, WILLIAM J.	'98	New York City
MOLLOY, THOMAS J.	'96	Syracuse, N. Y.
MONAHAN, JOHN	'74	New York City
MOONEY, FRANCIS J.	'80	New York City
MOORE, WILLIAM A.	'94	New York City
MOORE, EDWARD J.	'03	New York City
*MORLOT, GEORGE M.	'86	Paterson, N. J.
MORRISSEY, PATRICK M.	'90	Haverstraw, N. Y.
MULDOON, JOHN F.	'83	New York City
MULLEN, JAMES H.	'04	Avoca, Pa.
MURPHY, JOSEPH P., M.D.	'88	Brooklyn, N. Y.
NAUGHTON, WILLIAM M.	'94	Oceanic, N. J.
NEVILLE, JAMES J.	'95	New York City
NORRIS, ALFRED	'72	Cincinnati, Ohio
O'BRIEN, THOMAS H.	'01	Oceanic, N. J.
O'BRIEN, FREDERICK L.	'04	Boston, Mass.
O'BYRNE, BERNARD M.	'05	New York City
O'CALLAGHAN, NORBERT F.	'06	Brooklyn, N. Y.
O'CONNELL, TIMOTHY J.	'98	New York City
*O'CONNOR, ALOYSIUS G.	'94	New York City
O'DONOVAN, ALFRED J.	'98	New York City
O'HARA, THOMAS F.	'04	Waverly, N. Y.
O'NEILL, THOMAS J.	'92	New York City
O'REILLY, MARCUS F.	'98	New York City
O'SHEA, THOMAS E.	'86	Yonkers, N. Y.
O'SULLIVAN, DENIS F.	'92	New York City
OSBORNE, AUGUSTINE	'97	New York City
PIEDRA, CLAUDIO J.	'99	Bolondron, Cuba

PIERCE, JOHN J.	'04	Bellows Falls, Vt.
PIZZINI, ALBERT A.	'03	Richmond, Va.
PHILIPS, JAMES J.	'92	New York City
POMMERER, WILLIAM C.	'91	New York City
POWERS, JOHN C.	'03	New York City
PRESTON, JOSEPH C.	'83	Rochester, N. Y.
QUINN, JOHN J.	'89	New York City
QUINN, WILLIAM E.	'01	Newark, N. J.
RAMELLA, PABLO	'77	Caracas, Venezuela,S.A.
ROCHE, EDWARD B.	'71	New York City
ROCK, ROYAL E.	'03	Centredale, R. I.
REDDING, JAMES	'79	New York City
REGAN, JAMES	'84	New York City
REILLY, JAMES	'76	New York City
ROGERS, JOHN	'74	Richmond, Va.
ROLAND, THOMAS F.	'07	
RONAN, JOHN	'74	Albany, N. Y.
*RONAN, JAMES B.	'77	Albany, N. Y.
RYAN, MICHAEL F.	'96	New York City
RYAN, JOSEPH P.	'98	New York City
RYAN, CHARLES A.	'04	New York City
SAIZAN, JOSEPH P., M.D.	'83	Opelousas, La.
SARDI, LUCIAN A.	'06	Fort Lee, N. J.
SCHALL, XAVIER	'71	Philadelphia, Pa.
SCOTT, JAMES J.	'71	Newark, N. J.
SCOTT, JOHN J.	'79	Cohoes, N. Y.
SHANKEY, JOHN J.	'75	Haverstraw, N. Y.
SHEA, CORNELIUS E.	'88	New York City
SHEEHAN, EDWARD A.	'87	New Haven, Conn.
*SHERIDAN, PHILIP H.	'84	Elizabeth, N. J.
SMITH, RICHARD J.	'95	New York City
SMITH, JAMES T.	'84	Newark, N. J.
STEINAU, HENRY C.	'03	New York City
SUAREZ, ANTONIO M.	'90	Havana, Cuba
SULLIVAN, DANIEL J.	'04	New York City
TRAINOR, PETER F.	'02	New York City
VANVALKENBURGH, GEORGE B.	'90	Lexington, Ky.
VINCENT, ARSENE P.	'90	Versailles, France
VINDOSOLA, JOSE V.	'78	Havana, Cuba
*WALLACE, JAMES A.	'79	Albany, N. Y.
WALSH, CHARLES H.	'02	New York City
WALSH, JAMES E.	'06	New York City
WALSH, MILTON C.	'99	New York City
WARD, JOHN E.	'91	Yonkers, N. Y.

WATERS, GEORGE W.	'84	New York City
*WATTERS, FRANCIS D.	'78	Rochester, Pa.
WEIS, FREDERICK J.	'86	Waterbury, Conn.
WELCH, EDWARD F.	'93	Portsmouth, N. H.
WESTON, JOHN J.	'91	New York City
WHITE, FRANCIS P.	'77	Havana, Cuba
WILLARD, WALTER J.	'86	Washington, D. C
WYNN, GEORGE, H.	'97	New York City
YTURIE, EMANUEL	'76	New York City

MANHATTAN COLLEGE ALUMNI SOCIETY.

The object of the Society is to keep alive among the Alumni a sentiment of affection for their Alma Mater, and to unite the graduates of successive years by a common tie of fellowship.

Regular meetings are held on Commencement day, after the graduating exercises, and on or about the 22d of February.

There are three reunions of the Society each year : at the Alumni dinner, at the Memorial Mass on Decoration day, and at the reception of the newly graduated class on Commencement day.

MANHATTAN COMMERCIAL ALUMNI SOCIETY.

The Manhattan Commercial Alumni Association was organized September 5, 1901. Two meetings are held yearly.

DE LA SALLE LITERARY SOCIETY.

This Society is confined to the students of the Senior year. The end proposed is the free discussion of questions pertaining to Philosophy, which have been suggested, but not fully treated in the class-room. The Professor of Philosophy acts as Moderator.

NEWMAN LITERARY SOCIETY.

The members of the Junior Class form this Society. The exercises, consisting of original essays and debates on literary or other subjects, are held weekly. The Professor of English Literature acts as Moderator.

HUGHES LITERARY SOCIETY. . .

This Society consists of the students of the Sophomore year. Meetings are held at least twice a month, the principal exercises of which are debates on historical and scientific subjects, and on questions of the day, as well as essays on various topics. The senior Professor of the class acts as Honorary President.

McCLOSKEY LITERARY SOCIETY.

This Society, composed of the members of the Freshman Class, holds its regular meeting on Friday afternoon. The exercises consist principally of debates on various subjects to train the students to fluency of speech and readiness in argument.

CORRIGAN LITERARY SOCIETY.

The students of the Fourth Year High School have formed themselves into a literary society, which they have named after the late Archbishop of New York. They hold regular monthly meetings, and sometimes class exercises, to which the College students are invited.

THE FARLEY DEBATING SOCIETY.

This Society is composed of the Senior students of the Commercial Department. Weekly meetings are held at which subjects pertaining to business and commerce are discussed. The study of parliamentary law is insisted on and great stress is laid on oral composition. Debates and literary exercises alternate at the weekly meetings. The Principal of the Department acts as Moderator.

INDEX.

PAGE

Officers of the College 2
Calendar 1908 3
General Statement 5
Library 6
Affiliated Institutions 7
Prizes and Medals 8
Fees 10
Entrance Requirements 11
College.
Examinations 15
Theses 16
Degrees 16
Arts Department 17
Statement 19
Courses 20
Pedagogy 23
Notes on Law and Medicine 24
Engineering Department 25
Civil Engineering 27
Higher Degrees 30
Courses of Study 31
Astronomy 36
Biology 36
Chemistry 37
Christian Doctrine 56
Civil Engineering 38
Drawing 41
Economics, Social and Political Science 42
English 43
French 44
Geology 45
German 46
History 46
Italian 48
Mathematics 48

PAGE

COURSES OF STUDY—*Continued.*
Mechanics 48
Oratory 49
Pedagogy 50
Philosophy 52
Physics 54
Spanish 56
OFFICERS OF THE ALUMNI SOCIETY 57
GRADUATES, LIST OF 59
THE HIGH SCHOOL 81
Admission 83
Examinations 83
Reports 83
Home Study 84
Courses 85
THE SCHOOL OF COMMERCE 91
Statement 93
Prizes and Medals 93
Courses 94
Officers of the Commercial Alumni Association 98
Graduates of Commercial Department 99
COLLEGE SOCIETIES 107

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